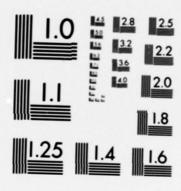
ADVANCED AIRCRAFT ELECTRICAL SYSTEM (AAES) DEFINITION AND PROTOTYPE DESIG. (U) GRUMMAN AEROSPACE CORP BETHPAGE N Y G COTTER ET AL. JUL 76 NADC-76194-30-VOL-2 N62269-75-C-0392 F/G 9/3 AD-A047 860 1/4 UNCLASSIFIED NL



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NADC-76194-30

ADVANCED AIRCRAFT ELECTRICAL SYSTEM (AAES)

Definition and Prototype Design for F-14 Aircraft

Volume 2: Appendixes

Grumman Aerospace Corporation Bethpage, New York DDC DEC 20 1977 DEC 20 1977

JULY 1976

TECHNICAL REPORT NADC-76194-30
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This report describes the application of advanced electrical power generation and distribution concepts to the F-14A aircraft. The study is designed to provide a baseline from which the concepts of the Advanced Aircraft Electrical Systems (AAES) can be developed and tested in the laboratory and on a prototype aircraft. The Navy F-14A aircraft was used as the vehicle to which the study concept was applied, and from which the study data base was developed.

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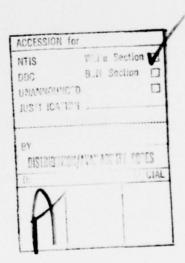
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Two advanced power generation concepts, Variable Speed Constant Frequency (VSCF), and Constant Frequency Generator-DC Link (CFG-DC) were investigated. The Solid State Electric Logic (SOSTEL) system was used to provide power distribution. This system employs data bus/remote terminal concepts, solid state transducers, and solid state power controllers to provide the control, protection and power interlocks presently implemented on the aircraft by electromechanical devices (switches, circuit breakers and relays).

This preliminary design study identifies the system, hardware/software operational, installation, thermal, reliability, and flight test requirements for the application of AAES to a prototype aircraft.



FOREWORD

Data tabulated during the analysis of F-14A Integrated Weapons Systems Functional Diagrams (IWSFD) NAVAIR No. 01-F-14AAA-16 and No. 01-F-14AAA-16A is documented in Appendix B. Tables A-1 and A-2 of Appendix A provide a serial-numerical correlation of the identification codes of the transducers and equations with the IWSFD figure. Table A-3 is a listing of the number of equations and transducers by IWSFD figure. Table A-4 serially identifies the transducers by identification codes, name, signal source and IWSFD figure number. Appendix C records Bendix Corporation comments on specification MIL-E-23001A(AS) in order of specification paragraph number.

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Appendix A CORRELATION DATA

(3)

TABLE A-1. TRANSDUCER AND ASSOCIATED F-14 INTEGRATED WEAPON SYSTEMS FUNCTIONAL DIAGRAMS (IWSFD) INDEX

Transducer Ident Code	IWSFD Figure	Transducer Ident Code	IWSFD Figure
001-002	1	163	35
003-005	2	164-179	42
006-007	3	180-187	35
008-011	8	188-190	42
012-015	9	191-215	30
016	11	216-250	1
017	5	251-253	17
018-019	12	254-256	18
020	14	257-260	19
021-025	1	261-275	20
026-030	2	276	27
031-033	1	277	43
034-047	2	278	15
048-058	3	279-280	19
059-070	5	281	20
071-072	2	282-288	10
073	3	289-499	OPEN
074-075	7	500-508	45
076-082	16	509-517	29
083-093	44	518-541	46
094-100	33	542	OPEN
101	34	543-549	46
102	1	550-578	43
103-104	34	579-581	46
105-108	37	582-699	OPEN
109	38	700-708	1A
110-123	39	709-718	3A
124-130	32	719	4A
131-136	40	720	5A
137-153	32	721-724	4A
154-156	40	725	OPEN
157-158	38	726-727	4A
159-162	40	728-729	5A

TABLE A-2. EQUATION/CONTROLLER AND ASSOCIATED F-14 INTEGRATED WEAPON SYSTEMS FUNCTIONAL DIAGRAMS (IWSFD) INDEX

Equation/ Controller Ident Code	IWSFD Figure	Equation/ Controller Ident Code	IWSFD Figure	Equation/ Controller Ident_Code	IWSFD Figure
001-017	1	112-116	5	375-376	27
018-025	2	117-119	2	377-378	15
026	3	120-123	3	379-380	19
027-030	4	124-125	7	381-382	10
031	5	126-157	16	383-396	20
032-036	6	158-167	44	397	17
037-040	7	168-174	33	398-401	10
041-055	8	175-179	34	402-403	15
056-059	9	180-181	37	404-499	OPEN
060-061	10	182-192	38	500-504	41
062	11	193-194	39	505-516	45
063-064	12	195-206	32	517-528	29
065-066	13	207-209	3	529-532	46
067-076	14	210-223	32	533-534	15
077	OPEN	224-235	40	535-536	46
078-081	15	236-261	42	537-538	10
082-084	OPEN	262-276	35	539-558	46
085	15	277	42	559-592	43
086-094	1	278-299	30	593-699	OPEN
095-098	2	300-321	1	700-715	1A
099-101	1	322-331	17	716-726	3A
102-106	2	332 - 3 3 7	18	727-740	4A
107-110	3	338-347	19	741-751	5A
111	6	348-374	20		

TABLE A-3. NUMBER OF EQUATIONS AND TRANSDUCERS BY FIGURE (SHEET 1 OF 2)

Figure	No. of Equations	No. of Transducers
1	51	47
2	20	24
3	12	14
4	4	0
5	. 6	13
6	6	0
7	6	2
8	15	4
9	4	4
10	9	7
11	1	1
12	2	2
13	2	0
14	10	1
15	11	1
16	32	7
17	11	3
18	6	3
19	12	6
20	42	. 16
27	2	1
29	12	9
30	22	25
32	26	24
. 33	7	7
34	5	3
35	15	9
37	2	4
38	11	3
39	2	14
40	12	13
41	5	0

TABLE A-3. NUMBER OF EQUATIONS AND TRANSDUCERS BY FIGURE (SHEET 2 OF 2)

Figure	No. of Equations	No. of Transducers
42	27	19
43	34	30
44	10	11
45	12	9
46	26	34
1A	16	9
3A	11	10
4A	14	7
5A	11	3

TABLE A-4. TRANSDUCERS (SHEET 1 OF 13)

LTEM	SIGNAL NAME/FUNCTION	SIGNAL SOURCE	IDENT	PIG	HATE
100	> 620 WING SWEEP	WING FOS. SW (51AS)	CKSOOL	1	0.1 CPS
200	LEFT MIG WOM	LEPT MLG SAFETY SMITCH (45S1)	@08@D	1	1 CPF
6003	HCT MAIN AC FWR ON LINE	AC PAR CONTACTORS (66A6)	XA3003	Q.	1 CPF
400	LFT MAIN AC FWR ON LINE	AC PWR CONTACTORS (66A6)	XASOON	Q.	1 CPF
900	GND COOLING PRESS INTLK - HIGH	GND COOKING PRESS INTLK SW (55S2)	100000E	Q	1 CPF
900	ENG/PROBES AWII-ICE SW-ORIDE	EXT. ENVIR CONTROL PML (792A1)	HA3006	3	2 CPF
200	ENG/PROBES ANTI-ICE ST-AUTO	EXT. ENVIR CONTROL PM. (792A1)	HASOO7	3	2 CPF
900	CRYPO - ON	KY-28 CONTROL PWL (12A2)	NF3008	80	2 CPF
600	CRYTO - RELAY	KY-28 CONTROL PIL (12A2)	RP5009	80	2 CPF
010	CRYTO - PLAIN	KY-28 CONTROL PIR (12A2)	N-5010	ŵ	2 CPF
011	CRYTO - ZEROIZE	KY-28 CONTROL PUL (12A2)	RP-5011	80	2 CPF
012	IFF ENA	AN/AMG 9	L.5012	6	1 CPS
013	FILOT EJECT - NORMAL	PILOT EJECT SW (0952)	W1.3013	6	1 CFF
410	MODE 4 CODE ZEROIZE	IFF TRABFORDER	SKEON	6	1 CPS
015	R-AICS HYDR-ON	RIGHT AIR INLET CONTROL PROGRAMMER (32A7)	DIESO15	94	0,1 CPS
910	HSD/ECMD - ON	DISPLAYS CONTRG. PANEL (709AL)	7155016	п	2 CPF
710	THROTILE MODE SW - BOOST/AUTO	FILOTS LEFT SIDE CONSOLE	QK:8017	\$	4 CPF
910	VDI- ON	DISFLAYS CONTROL PANEL (709A1)	FE3018	75	2 CPF
610	HUD - ON	DISPLAYS CONTROL PANEL (709AL)	610834	12	2 CPF
070	GYRO/WSHLD HF - ON	SYS TEST - SYS PARE (790A1)	FMSORO	14	4 CPF
120	RUDDEN TRIM SW - LEFT	INLET NAMES/ENG CRANK/THROTTLE CONTROL PAR (710A1)	CJBOEL	1	4 CPF
290	RUDDER TRIM SW - RIGHT	INLET NAMPS/ENG CRANK/THROTTLE CONTROL PML (710A1)	CJSOR2	1	A CPF
063	TRIM SW - UP	CONTROL STICK (2004) HAND GRIP (20AMA2) THANSDUCER ASSY (20AMA1)	CFS023	1	4 CPF
420	TRIM SW - DOWN	CONTROL STICK (20A4) HAND GRIP (20A4A2) THANSDUCER ASSY (20A4A1)	CFBORA	,	4 CPF
982	ATTITUDE HOLD SELECTED	ANCS CONTROL FAMEL (20A9)	CF150225	1	10 CPF
970	HORIZOWIAL TAIL AUTHORITY STOP SW - OPEN	HORIZ TAIL AUTHORITY STOP SW (50S1)	200E42	ev	10 CPF
120	WING SWEEP HANDLE POS. SW - RAISED 2.5 INCHES	THROTTLE QUADRANT (711A1)	CF3027	es.	0,1 CPS
980	HORIZ TAIL RESTRICTED AUTHORITY SW - RESTRICTED	HORIZ TAIL RESTRICTED ANTHORITY SW (5082)	CFSORB	es.	0,1 CPS
680	AFT STICK AUTHORITY SW - REDUCED AUTHORITY	APT STICK AUTHORITY SW (5083)	CF3029	es.	0,1 CPS
030	WING SWEEP HANDLE POS. SW < 680	THROTTLE QUADRANT (711A1)	CK3030	es es	0,1 CFS
031	COMBINED HYD PRESS SW - NORMAL	COMB HYD PRESS SW (63S1)	DH0031	1, 35	1 CFF
035	FLT HYD PRESS SW - NORWAL	PLT HYD PHESS SW (6382)	DHI3032	1, 35	1 CPF
033	AUTO PILOT ENGAGE NOSEMBEL STEERING ENGAGE	CONTHOX STICK (20AA) HAND GRIP (20A4A2)	GROOMS	1	1 017
460	LFT AUX FLAP RETRACT SW - RETRACT	P/O LKPT AUX FLAP RETRACT SW (51817)	CKBO34	a	0,1 CFS

TABLE A-4. TRANSDUCERS (SHEET 2 OF 13)

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	IABLE A-	IABLE A-4. INANSDUCERS (SHEET 2 OF 19)			
LTEM	SIGNAL NAME/FUNCTION	SIGNAL SOUNCE	IDEN	<u>FIG</u>	KATE
035	RIGHT AUX FLAP RETRACT SW - RETRACT	P/O RIGHT AUX FLAP RETRACT SW (51818)	CKB035	O4	0,1 CFS
980	FLAP HANDLE - < 60	FLAP 6° SWITCH (51819)	CKS036	Q4	0,1 CFS
037	LEFT SLAT ASYMMETRY SW - CLOSED	LEFT SLAT ASYMMETRY SW (51S7)	CKSO37	C4	0,1 CFS
980	RIGHT SLAT ASYMMETRY SW - CLOSED	RIGHT SLAT ASYMMETRY SW (5188)	сквозв	Ou	0.1 CPS
680	LEFT FLAP ASYMMETRY SW - CLOSED	LEFT FLAP ASYMMETRY SW (51.85)	CKS039	O4	0,1 CPS
040	RIGHT FLAP ASYMMETRY SW - CLOSED	RIGHE FLAP ASYMMETHY SW (5186)	CKSONO	O4	0.1 CPS
041	RIGHT FLAP OVERTRAVEL UP SM - CLOSED	RIGHT FLAP OVERTHAVEL UP SW (51813)	CKSO41	04	0,1 CPS
042	RIGHT FLAP OVERTRAVEL DOWN SW - CLOSED	RIGHT HAP OVERTRAVEL DOWN SW (51814)	CYSONS	o ₄	0,1 CPS
043	LEFT FLAP OVERTRAVEL UP SW - CLOSED	LEFF FLAP OVERTNAVEL UP SW (51815)	CKBOk3	O4	0,1 CPS
440	LEFT FLAP OVERTRAVEL DOWN SW - CLOSED	LEFT FLAP OVERTRAVEL DOMN SW (51816)	CKSOM	o ₄	0,1 CPS
945	WING SWEEP SW - 200	P/O WING SWEEP SW (51AS)	CKSO45	o.	0,1 CPS
940	FLAP HANDLE - 700	FLAP HANDLE POS. SW. (P/O THROTTLE QUAD 711A1)	CKSOM6	c.	0.1 CPS
710	FLAP INTLK ENGAGED	WING SWEEP/FLAP AND SLAT CONTROL BOX	CKSO47	04	0.1 CPS
840	EXTERIOR LITES - OFF	THEOTILE QUADRANT (711A1)	LAS ONB	en	A CPF
610	HOOK CONTROL HANDLE - DOWN	HOCK/GUN PARKE (706A1) HOCK CONTROL HANDLE (49A1)	640600	3	1 CPF
050	HOOK BYPASS - CARRIER	MASTER LITE CONTROL PANEL (713A1)	003000	3	1 CPF
150	ARRESTING HOOK - DOWN	HOOK DOWN SWITCH (4982)	003051	89	1 CPF
250	MLG HANDLE - DOWN	MLG HANDLE (785A1)	GD80%	3	2 CPF
053	HIGH APPROACH	→ ATTK INDICATOR (4,542)	LAS053	85	10 CPF
150	DOOR SMITCH - OPEN	SYS TEST - SYS FAR FALL (790AL)	WASO54	3	1 CPF
950	TEST-DEPRESSED	SYS TEST - SYS FWR PML (790A1)	NJS055	8	10 CPF
950	♦ ATTK - SELECTED	SYS TEST - SYS FWR FML (790A1)	LAS0%	8	1 CFF
150	LOW APPROACH	→ AFTK INDICATOR (45A2)	LASO57	60	10 CPF
850	NORMAL APPROACH	\$ APTR INDICATOR (45A2)	LAS058	3	10 CFF
650	AUTO INITIATE	THROTTLE CONTROL COMPUTER (21A1)	64x3099	8	0.1 CPS
090	NO FRICTION	P/o throttle quadrant (711A1)	90000	2	0.1 CPS
190	R. THROTTLE LEVER - 8 LBS	P/O THROTTLE QUADRANT (711A1)	190630	6	0.1 CPS
290	L. THROTILE LEVER - 8 LBS	P/O THROTTLE QUADRANT (711A1)	983062	2	0.1 CPS
690	6° < MIL LEFT	P/O LEFT THROTTLE CONTROL ACTUATOR (21A7)	6903063	8	0,1 CPS

TABLE A-4. TRANSDUCERS (SHEET 3 OF 13)

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ITEM	SIGNAL NAME/FUNCTION	STGIMI, SOURCE	Them	NIG	RATE
190	6° > IDLE LEFT	P/O LEFT THROTTLE CONTROL ACTUATOR (21A7)	46003Ap	2	0,1 CPS
590	6° > IDLE RIGHT	P/O RIGHT THROFFLE CONTROL ACTUATOR (21A7)	QK:3065	5	0,1 CFS
990	6° < MIL RIGHT	P/O RIGHT THROTTLE CONTROL ACTUATOR (21A7)	9900ж	5	0.1 CPS
290	FLT GEAR DN	MASTER TEST PANEL (734A1)	NJSO67	5	1 CPF
999	TEST SELECTOR - DEPRESSED	MASTER TEST PANEL (734A1)	NJS068	5	10 CPF
690	LEFT TORQUE LIMIT NOF	P/O LEFT THROTLE CONTROL ACTUATOR (21A7)	690SXB	2	0,1 CPS
020	RIGHT TORQUE LIMIT NOT	P/O RIGHT THROTTLE CONTROL ACTUATOR (21A7)	QKSO70	2	0,1 CPS
071	WING SWEEP	SYS TEST - SYS PARE (790A1)	CKSO71	a	1 CPF
ore	FLAP INFERLOCK DISENCAGED	WING SWEEP/FLAP AND SLAT CONTROL BOX (50A2)	CKSO72	a	0,1 CFS
073	LITS	MASTER TEST PANEL (734A1)	LASO73	8	1 CPF
1,10	HADAR BEACON - OFF	RADAR BEACON CONTROL PANEL (19A2)	TPSO74	7	4 CPF
312	ACLS SELECTED	MADAR BEACON CONTROL PANEL (19A2)	TFS075	7	4 CPF
970	MCB ENABLE	AEMAMENT PANEL (85AL)	KCS076	16	20 CPF
21.0	EMERG STORES JETT	EMERG STORES JETT PUSHBUTTON (85S2)	AMSO77	91	1 CPF
97.0	ACM - ON	ACM PANEL (702A1)	AMS078	91	10 CPF
620	FUSE EMBLE INTLK (28VDC)	A PMANENT PAREL (85A1)	AMS079	91	0,1 CPS
080	ARMAMENT SAFETY ORIDE SWITCH - ENABLED	ARE MENT SAFETY OVERRIDE SWITCH (8583)	AMB080	91	1 CPF
190	ACM JETT	ACM JETT FUSHBUTTON SWITCH (ACM PANEL, 702A1)	AMSOB1	91	1 CPF
290	MASTER AIM - ON	ACM PANEL (702A1)	AMS082	91	1 CPF
083	PROBE OUT/LOCKED SWITCH - LOCKED	P/o PROBE HARNESS SWITCHES (6281)	QFS083	1	10 CPF
490	TAXI LITES - ON	MASTER LITE CONTROL (713A1)	LRS084.	7.	4 CFF
990	NLG - DOWN AND LOCKED	HLC DOWN & LOCKED SWITCH (7583)	GDS085	77	1 CPF
980	ANTI-COLLISION LITES - ON	MASTER LITE CONTROL (713A1)	1N3086	3	1 CPF
780	MASTER LITE - STEADY	MASTER LITE CONTROL (713A1)	LNS087	77	2 CPF
980	TAIL POSITION - BRIGHT	MASTER LITE CONTROL (713A1)	LNSO88	4	2 CPF
690	TAIL POSITION - DIM	MASTER LITE CONTROL (713A1)	1.NS089	77	2 CPF
060	WING POSITION - BRIGHT	MASTER LITE CONTROL (713A1)	LNSO90	3	2 CPF
160	WING POSITION - DIM	MASTER LITE CONTROL (713A1)	1606NT	44	2 CPF
260	WING SWEEP - > 250	SWITCH ACTUATOR THANSMITTER (6383)	скводе	77	0,1 CFS
933	FORMATION LITES - ON	MASTER LITE CONTROL (713A1)	LF3093	77	2 CPF
160	GYRCE/MSHLD HTR - ON	SYS, TEST & SYS, PWR PML (790A1)	HUSOSA	33	4 CPF
960	WINDSHIELD DEFOG - MAX	WINDSHIELD DEPOG PML (40A3)	HJ3095	33	2 CPF
960	WINDSHIELD DEFOG - NORM	MINUSHIELD DEPOG PM. (40A3)	9608(1)	33	2 CPF

TABLE A-4. TRANSDUCERS (SHEET 4 OF 13)

ITEM	SIGNAL NAME/FUNCTION	SIGNAL SOURCE	IDENT	FIG	RATE
160	WSHILD OVERHEAT SENSOR - HOT	WSHILD OVERHEAT SENSOR (40SI)	HASO97	33	0.1 CPS
860	RAIN REPEL - ON	EXT. ENVIRONMENT CONTROL PANEL (792A1)	HJS098	33	2 CPF
660	AIR - ON	EXT. ENVIRONMENT CONTROL PANEL (792A1)	HUS099	33	2 CPF
100	ALAHM LITE OUTFUT - ON	WINDSHIELD POWER CONTROL (40A1)	1.15100	33	2 CPF
101	LIQ COOLING AWG9/AIM54 - ON	LIQUID COOLING CONFROL PANEL (61A1)	HWS101	34	2 CPF
106	RIGHT MLG WOW	RIGHT M.G SAFETY SWITCH (4882)	GD 51 02	1	1 CPF
103	LIQ COOLING ANG-9 - ON	LIQUID COOLING CONTROL PANEL (61A1)	HWS103	34	2 CPF
104	FAIRING INTERLOCK SWITCH - CLOSED	FAIRING INTERLOCK SWITCH (6153)	HNS104	34	2 CPF
105	PRESSURE - > 2000 - 50 PSI	SPOILER/HIGH LIFT BACKUP MODULE (53B1)	DHS105	37	0.1 CPS
901	SPOILERS - ON	SPOILERS - SYSTEM TEST - SYSTEM FUR PANEL (790A1)	901300	37	2 CPF
107	EXTERNAL ELEC. FWR - ON	AC PWR CONTACTOR ASSEMBLY (66A3K3)	XASIO7	37	1 CPF
108	TEMP SWITCH > 2750 ± 150	SFOILER/HIGH LIFT BACKUP MODULE (53B1)	BMS108	37	0.1 CFS
109	KIGHT ENG. OIL TEMP > 250°F	RIGHT ENG. OIL TEMP. SWITCH (70A4)	601SM	38	0.1 CPS
110	L. ENGINE MACH SWITCH > 2.1 MACH	LEFT ENGINE MACH SWITCH	KCS110	39	0.1 CPS
111	L. ENGINE PLA SWITCH - IDLE	LEFT ENGINE PLA SWITCH	KCS111	39	0.1 CPS
112	L. NOT STONED > 0.9 MACH	DIFFUSER RAMP OUT OF STOM SWITCH (32Sh)	KCS112	39	10 CPF
1113	L. THROFTLE < 310	THROTTLE QUADRANT (711A1)	QKS113	36	0.1 CPS
114	L. BLEED EXIT DOOR COMMAND - ON	LEFT AIR IMLET CONTROL PROGRAMMER (32A6)	KCS114	39	0.1 CPS
1115	RUDDER LEFT DEFLECTION - > 100	MCB HUDDER SWITCH (BOSI)	cusi15	39	0.1 CPS
911	RUDDER FIGHT DEFLECTION - > 100	MCB RUDDER SWITCH (8082)	911800	39	0.1 CPS
11.7	RIGHT THROTTLE - < 310	THROFFLE QUADRANY (711A1)	QKS117	36	0.1 CPS
118	RIGHT NOT STOWED > 0.9 MACH	DIFFUSER RAMP OUT STOW SWITCH (3258)	ксвітв	39	0.1 CPS
611	R. BLEED EXIT DOOR COMMAND -	RIGHT AIR INLET CONTROL PROGRAMMER (32A7)	KCS119	36	0.1 CPS
120	INPLIGHT REFUELING PROBE DOOR - OPEN	INFLIGHT REPUEL PROBE DOOR SMITCH (62SI)	QFS120	39	0.1 CPS
121	AOA > 17 UNITS, (> 120 AOA)	AOM INDICATOR (45A2)	FDG121	39	0.1 CPS
122	RIGHT ENGINE MACH SWITCH - > 2.1 MACH	RIGHT ENGINE MACH SMITCH	KCS122	39	0,1 CPS
123	RIGHT ENGINE PLA SWITCH - IDLE	RIGHT ENGINE PLA SWITCH	KCS123	39	0.1 CPS
124	AIR SOURCE - RAM SELECTED	AIR CONDITION CONTROL PANEL (42A1)	HNS124	×	2 CPF
125	RAM AIR - INCR	RAM AIR SE SWITCH P/O (42A1)	HQS125	×	2 CPF
126	RAM AIR - DECR	RAMAIR SE SMITCH P/O (42A1)	HQS126	æ	2 CPF
127	GND CLG - OBC/CABIN	TEST PANEL (720A1)	HNS127	×	2 CPF
128	GND CLG - AMOS/AIMSA	TEST FAREL (720A1)	HWS128	×	2 CPF

TABLE A-4. TRANSDUCERS (SHEET 5 OF 13)

ITEM	SIGNAL NAME/FUNCTION	SIGNAL SOURCE	IDENT	FIG	BATE
129	> 30000 ± 2000 FT	ANEROID ALTITUDE SWITCH -AIRCRAFT AIR TEMP, ELECTRIC CONTROL (42A8)	HCS129	æ	20 CPF
130	< 0.4 MACH SIGNAL	AIR DATA COMPUTER (05A1)	FLS130	æ	0.1 CPS
131	LEFT ENGINE - CRANK	ENGINE CONTROL PAREL (710A1)	KKS131	04	2 CPF
132	RIGHT ENGINE - CRANK	ENGINE CONTROL PANEL (710A1)	KKS132	1,0	2 CPF
133	L. ENGINE - AUTO RESTART SWITCH - CLOSED	LEFT ENGINE COMPRESSOR DISCHANGE SWITCH PS4	KKS133	1,0	2 CPF
134	R. ENG. AUTO RESTART SWITCH - CLOSED	RIGHT ENGINE COMPRESSOR DISCHARGE SWITCH PSA	KKS134	640	2 CPF
135	L. ENG. CUTOFF SWITCH - CLOSED	LEFT ENGINE	KKS135	10	2 CPF
136	R. ENG. CUTOFF SMITCH - CLOSED	RIGHT ENGINE	KKS136	10	2 CPF
137	AIR SOURCE - OFF	AIR CONDITION CONTROL PANEL (42A1)	HINS137	æ	2 CPF
138	AIR SOUNCE - L. ENGINE	AIR CONDITION CONTROL PANEL (42A1)	HNS138	84	2 CPF
139	LEFT THROTTLE START CROSS BL - < 40°	THROTILE QUADRANT (711A1)	KAS139	84	0.1 CPS
140	RIGHT THROFTLE START CROSS BL - < 400	THROTTLE QUADRANT (711A1)	KAS140	æ	0.1 CPS
141	LEFT ENGINE BL AIR VALVE SWITCH - CUTOFF	THEOFFLE QUADRANT (711A1)	KAS141	æ	0.1 CPS
142	RIGHT ENGINE BL AIR VALVE SWITCH - CUTOFF	THROTTLE QUADRANT (711A1)	KAS142	æ	0.1 CFS
143	AIR SOURCE - R. ENGINE	AIR COMDITION CONTROL PANEL (42A1)	HNS143	æ	2 CPF
144	FLEED DUCT OVERPRESSURE - HIGH	BLEED DUCT OVERPRESSURE SWITCH (4284)	4418PH	×	2 CPF
145	TEMP - AUTO	AIR CONDITION CONTROL PANEL (42A1)	HONS145	×	2 CPF
146	OVERTEMPERATURE - 550°F	OVERTEMPERATURE SWITCH (550°F) (4282)	HNS146	æ	2 CPF
147	OVERTEMPERATURE - 475°F	OVERTEMPERATURE SMITCH (475°F) (42S1)	HNS147	×	2 CPF
148	< 0.25 MACH SIGNAL	AIF DATA COMPUTER (05A1)	FLS148	×	0,1 CPS
149	CABIN PRESS - CUMP	AIR CONDITION CONFROL PANEL (42A1)	HPS149	×	2 CPF
150	CABIN - LOW PRESSURE	CABIN LOW PRESSURE SWITCH (4283)	HPS150	82	2 CPF
151	LEFT ENGINE OIL - HOF	LEFT ENGINE	151343	32, NAVAIR-2-2-6	6 2 CPF
152	CAUTION LAMP DRIVE - ON	BLEED AIR LEAK DETECTOR CONTROL UNIT (70A8)	HNS152	æ	2 CPF
153	BLEED AIR - SELECTED	SYS TST & SYS FWR PANEL (790AL)	HQS153	35	2 CPF
151	AIR START ON	EXT. ENVIRONMENT/THROTTLE CONTROL PANEL (710A1)	KKS154	04	2 CPF
155	RIGHT IGNITION SMITCH - > 30	THROTTLE QUADRANT (711A1)	KKS155	40	0.1 CPS
156	LEFT IGNITION SWITCH - > 30	THROTTLE QUADRANT (711A1)	KKS156	10	0.1 CPS
157	RICHT OVSP	ENG, ROTOR OVERSPEED DETECTOR (34MG1)	EUS1 57	38	2 CPF
158	LEFT OVSP	ENG, ROTOR OVERSPEED DETECTOR (34MG1)	85 ISDS	38	2 CPF
159	R. ENG. VALVE - OPEN	R. ENG. PRESSURE REGULATOR VALVE - POSITION SWITCH	84S1 59	40	2 CPF
160	L. ENG. VALVE - OPEN	L. ENG. PRESSURE REGULATOR VALVE - POSITION SWITCH	EQS160	40	2 CPF
161	R. ENG. IDLE EXHAUST NOZZLE SOLENOID SWITCH-CLOSED (IDLE)	R, ENG. FUEL FUMP	Eusiéi	40, NAVAIR 2-2-6	0.1 CPS
162	L. ENG. IDLE EXHAUST NOZZLE SOLENOID SWITCH-CLOSED (IDLE)	L. ENG. FUEL PUMP	EJSIG	40, NAVAIR 2-2-6	0.1 CPS
					1

TABLE A-4. TRANSDUCERS (SHEET 6 OF 13)

LTEM	SIGNAL, NAME/FUNCTION	3. HOLS TOURS	IDENT	F16	HATE
163	COMBINED SYS. PRESSURE - > 450 PSI	COMBINED SYS PRESSURE MODULE (47A2)	EPS163	35	2 CPF
164	SPEED BRAKE - RETRACTED	SPEED BRAKE SWITCH (7831) P/O SPEED BRAKE CONTROL SYSTEM	CDS164	75	2 CPF
165	DUMP - ON	FUEL MANAGEMENT PANEL (707A1)	QAS165	77	1 CPF
166	FUEL FEED - AFT	FUEL MANAGEMENT PANEL (707A1)	9AS166	77	2 CPF
167	FUEL FEED - FWD	FUEL MANAGEMENT PANEL (707AL)	QAS167	77	2 CPF
168	FUEL CELL 2 OR 5 - DRY	ELECTRONIC CONTROL AMPLIFIER (33A18)	EJS168	74	2 CPF
169	RIGHT FUEL PRESSURE SWITCH - CLOSED	RIGHT FUEL PRESSURE SWITCH (6284)	ERS169	77	2 CPF
170	LEFT FUEL PRESSURE SWITCH - CLOSED	LEFT FUEL PRESSURE SMITCH (6283)	ERS170	775	2 CPF
nı	WING/EXT TRANS - OFF	WING EXTERNAL TRANSFER SWITCH 53, P/O FUEL MANAGEMENT PANEL (707A1)	QES171	75	2 CPF
172	REFUEL PROBE - FUS/EXID	FUEL MANAGEMENT PANEL (707AL) SMITCH SA	QES172	142	2 CPF
173	REFUEL PROBE - ALL/EXID	FUEL MANAGEMENT PANEL (707AL) SMITCH SA	QES173	77	2 CPF
174	MASTER TEST - FLF GR UP	MASTER TEST PANEL (734A1)	PUS174	142	2 CPF
175	RIGHT FUEL LOW CAUTION ADVISORY	R. ELECTRONIC CONTROL AMPLIFIER (33A2)	EJS175	75	2 CPF
176	LEFT FUEL LOW CAUTION ADVISORY	L. ELECTRONIC CONTROL AMPLIFIER (33Ah)	E35176	75	2 CFF
177	BINGO	PILOT FUEL QUANTITY INDICATOR (33MD)	EJS177	74	2 CM
178	QUANTITY SELECT - EXT	QUANTITY SELECT SWITCH S5, P/O FUEL MANAGEMENT FANEL (707A1)	EJS178	42	2 CPF
179	QUANTITY SELECT - WING	QUANTITY SELECT SMITCH S5, P/O FUEL MANAGEMENT PANEL (707A1)	EJS179	75	2 CPF
180	EXTERNAL AC FOWER - ON LINE	AC EXTERNAL POWER CONTACTOR (66A6K3)	XAS180	35	1 CPF
181	FLIGHT SYSTEM PRESS - > 450 FSI	FLIGHT SYSTEM PRESSURE MODULE (47A1)	EPS181	35	2 CPF
182	THANSFER FUMP - ON	SYSTEM TEST AND SYSTEM FOWER PANEL (790A1)	968182	35	10 CPF
183	HYD THANSFER FUMP - NORMAL	HYDRAULIC TRANSFER FUMP PANEL (47A3)	968183	35	10 CPF
184	BACKUP MODULE TEMP SWITCH - CLOSED (< 180°F)	FLIGHT CONTROL BACKUP MODULE (63BZ)	46180A	35	2 CPF
185	AUX HYD CONT - ON	SYS, TEST AND SYS POWER PANEL (790A1)	963185	35	2 CPF
186	EMERG FLT HYD - HD	MASTER TEST PANEL (734A1)	981896	35	1 CPF
187	BACKUP MODULE PRESSURE - CLOSED (> 500 PSI)	FLIGHT CONTROL BACKUP MODULE (63R2)	903187	35	10 CPF
188	WING/EXT TRANS - OKIDE	WING EXTERNAL TRANSFER SW - S3 (P/O FUEL MANAGEMENT PANEL (707A1)	9AS188	75	2 CPF
189	WING/EXT TRANS - AUTO	WING EXTERNAL TRANSFER SW - 83 (P/O FUEL MANAGEMENT PANEL (707A1)	691846	75	2 CPF
190	L AND R WING LOW LEVEL SENSORS - WET	ELECTRONIC CONTROL AMPLIFIER (GRAIO)	EJS190	75	2 CPF
161	NGE STRUT - EXTD	NOSE STROT SMITCH (74S1) P/O LANDING GRAR CONTROL PANEL	CAS191	30	2 CPF
192	NOSE STRUT - KNEEL	NOSE STRUT SHITCH (74S2) P/O LANDING GEAR CONTROL PANEL.	GASI92	30	2 CPF
193	LAUNCH BAR - EXTENDED	P/O LAUNCH BAR PHOXIMITY SWITCH (7452)	GAS193	30	2 CPF
194	LEFT THROTTLE - < MIL INR	THROTILE QUADRANT (711A1)	4618X	30	0.1 CPS
195	RIGHT THROFTLE - < MIL PWR	THHOTTLE QUADRANT (71A1)	9KS195	20	0,1 CPS

TABLE A-4. TRANSDUCERS (SHEET 7 OF 13)

HEN	SIGNAL NAME/FUNCTION	STOWN, SOUR:	IDENT	PIG	RATE
196	LAUNCH BAR - ABORT	LAUNCH BAR FANEL (74A1)	GAS196	30	2 CPF
197	HOOK - STOWED	ARRESTING HOOK NOT STONED SWITCH (49S1)	668197	30	2 CPF
961	ANTI-SKID/SPOILER BK - BOTH	ANTI-SKID/SPOILER BK SWITCH-(56) P/O FUEL MANAGEMENT PANEL (707AL)	скв198	30	2 CPF
199	AUTO PILOT ENGAGE NOSE WHEEL STEERING FUSHBUTTON SMITCH - ON	CONTROL STICK GRIP (20A4)	GHS199	30	2 CPF
500	LEFT THROTTLE - IDLE	THROTTLE QUADRANT (711A1)	9KS200	30	0.1 CPS
201	RIGHT THROTTLE - IDLE	THROTTLE QUADRANT (711A1)	QKS201	30	o.1 cPs
205	MLG DOOR - UP AND LOCKED	NIG DOOR UP AND LOCKED SWITCH (75S2)	cussos	30	2 CPF
203	LEFT MIG - DOWN AND LOCKED	LEFT MLG DOWN AND LOCKED SWITCH (75S4)	GDS203	30	2 CPF
204	LEFT MLG DOOR - UP AND LOCKED	LEFT MLG DOOR LOCKED/UNLOCKED SWITCH (75S7)	635204	30	2 CPF
205	LEFT MLG POSITION - UP AND LOCKED	LEFT M.G POSITION SWITCH (75S13)	GDE205	30	2 CPF
506	RIGHT MLG - DOWN AND LOCKED	RIGHT MLG DOWN AND LOCKED SWITCH (75S9)	902500	30	2 CPF
207	KIGHT MLG DOOR - UP AND LOCKED	RIGHT MLG DOOR LOCKED/UNLOCKED SWITCH (75S6)	GJS207	30	2 CPF
208	RIGHT MLG POSITION - UP AND LOCKED	RIGHT MLG DOOR FOSITION SWITCH (75S14)	GJS208	30	2 CPF
509	LEFT BRAKE PRESSURE - > 400 PSI	P/O LEFT BRAKE PRESSURE SWITCH (47SI)	602500	30	2 CPF
210	RIGHT BAKE PRESSURE - > 400 PSI	P/O RIGHT BRAKE PRESSURE SWITCH (4732)	002510	30	2 CPF
211	SKID CONTROL - PWR LOSS	SKID COMPROL BOX (82A1)	क्टड्या	30	2 CPF
212	LIGHT TEST - ACTIVE	PILOT CAUTION ADVISORY INDICATOR	MJS212	30	2 CPF
213	LEFT M.G - RETRACTED	LEFT BRACE PROXIMITY SWITCH (75S11)	CBS213	30	2 CPF
214	RIGHT MLG - RETRACTED	RIGHT BRACE PROXIMITY SWITCH (75512)	GBS214	30	2 CPF
215	FLAP LEVER - > 100	FLAP LEVER P/O THROFILE QUADRANT (711A1)	CG2215	30	10 CPF
216	WING SWEEP - < 57°	P/o wing Position Switch (51A5)	GES216	1	0.1 CPS
21.7	LEFT FLAP - > 250	LEFT FLAP POSITION SWITCH (2052)	CGS217	1	10 CPF
218	RIGHT FLAP - 2 25°	RIGHT FLAP POSITION SWITCH (20S1)	CGS218	-	10 CPF
219	DLC ENGAGE CHAFF DISPENSE - ON	DIC ENGAGE CHAFF DISPENSE PUSHBUTTON SWITCH P/O CONTROL STICK (20A4)	TMS219	,	2 CPF
220	LEFT THIM	P/O CONTROL STICK (20A4) - HAND GRIP (20A4A2) THIM SWITCH	CFS220		2 CPF
221	RIGHT TRIM	P/O CONTROL STICK (20A4) - HAND GRIP (20A4A2) TRIM SWITCH	CFS221	1	2 CPF
222	MASTER RESET - DEPRESSED	FUEL MANAGEMENT (707A1) MASTER RESET FUSHBUTTON	000000		2 CPF
223	ANTI-SKID/SPOILER BK - SPOILER BK	FUEL MANAGEMENT (707AL) ANTI SKID/SPOILER BK SWITCH	CDS223		2 CPF
224	NO. 4 RIGHT SPOILER - > 00	NO. 4 RIGHT SPOILER ACTUATOR (20A31)	CGSSS4	1	0.1 CPS
225	NO. 3 RIGHT SPOILER - > 00	NO. 3 RIGHT SPOILER ACTUATOR (20A30)	003225	1	0.1 CPS
526	NO. 2 RIGHT SPOILER - > 00	NO. 2 RIGHT SPOILER ACTUATOR (20A29)	925500		0.1 CPS
227	NO. 1 RIGHT SPOILER - > 00	NO. 1 RIGHT SPOILER ACTUATOR (20A28)	CG\$227	1	0.1 CPS
228	NO, 2 LEFT SFOILER - < 180	NO. 2 LEFT SPOILER ACTUATOR (20A25)	CG\$228		0.1 CPS

TABLE A-4. TRANSDUCERS (SHEET 8 OF 13)

ITEM	SIGNAL NAME/FUNCTION	SIGNAL SOURCE	IDENT	FIG.	HATE
229	NO, 1 LEFT SPOILER - < 180	NO. 1 LEFT SPOILER ACTUATOR (20124)	622553	1	0.1 CP
230	NO. 2 RIGHT SPOILER - < 180	NO. 2 RIGHT SPOILER ACTUATOR (20A29)	062500	1	0.1 CP
231	NO. 1 RIGHT SPOILER - < 180	NO. 1 RIGHT SPOILER ACTUATOR (20A28)	CGS231	1	0.1 CF
232	LEFT STICK/NORMAL	ROLL SWITCH ASSEMBLY (20A32)	262800	1	0.1 CF
233	RIGHT STICK/NOHWAL	ROLL SWITCH ASSEMBLY (20A32)	CGS233	1	9.1 CF
234	STICK SW	MASTER TEST PANEL (734A1)	tesso	1	1 CP
235	NO. 3 LEFT SPOILER - < 180	NO. 3 LEFT SPOILER ACTUATOR (20A26)	000035	1	0.1 CF
236	NO. 4 LEFT SPOILER - < 180	NO, 4 LEFT SPOILER ACTUATOR (20A27)	9625500	1	0,1 CF
237	NO. 3 RIGHT SPOILER - < 180	NO. 3 RIGHT SPOILER ACTUATOR (20A30)	CGS237	1	0,1 CF
238	NO. 4 RIGHT SPOILER - < 180	NO. 4 RIGHT SPOILER ACTUATOR (20A31)	0.05238	1	0.1 CF
239	NO. 2 LEFT SPOILER - > 00	NO. 2 LEFT SPOILER ACTUATOR (20A25)	cc2539	1	0.1 CF
240	NO. 1 LEFT SPOILER - > 00	NO. 1 LEFT SPOILER ACTUATOR (20A24)	CGS240	1	0.1 CF
241	NO, 2 LEFT SPOILER - (-4.5°)	NO. 2 LEFT SPOILER ACTUATOR (20A25)	CGS241	1	0.1 CF
242	NO. 1 LEFT SPOILER - (-4.5°)	NO. 1 LEFT SPOILER ACTUATOR (20A24)	CGS242	1	0.1 CF
243	NO. 1 RIGHT SPOILER - (-4.5°)	NO. 1 RIGHT SPOILER ACTUATOR (20A28)	Cass43	-	0,1 CF
244	NO. 2 RIGHT SPOILER (-4.5°)	NO. 2 RIGHT SPOILER ACTUATOR (20029)	442SDD	1	0.1 CF
245	NO. 3 LEFT SPOILER - > 00	NO. 3 LEFT SPOILER ACTUATOR (20A26)	5 42500	-	0.1 CF
246	NO. 4 LEFT SPOILER - > 00	NO. 4 LEFT SPOILER ACTUATOR (20A27)	942500	1	0.1 CF
247	NO. 3 LEFT SPOILER - (-45°)	NO. 3 LEFT SPOILER ACTUATOR (20A26)	CGS247	1	0.1 CF
248	NO. 4 LEFT SPOILER - (-4.5°)	NO. 4 LEFT SPOILER ACTUATOR (20A27)	842500	1	0.1 CF
546	No. 3 RIGHT SPOILER-(-4.5°)	NO. 3 RIGHT SPOILER ACTUATOR (20A30)	642SDD	7	0.1 CP
250	No. 4 RIGHT SPOILER - (-4.5°)	NO. 4 RIGHT SPOILER ACTUATOR (20A31)	052500	1	0.1 CF
251	TARGET DESIGNATE - UP	TARGET DESIGNATE SMITCH (85S1)	AAS251	17	10 CP
250	TARGET DESIGNATE - DES	TARGET DESIGNATE SWITCH (85S1)	AAS252	17	10 CP
253	TARGET DESIGNATE - DN	TARGET DESIGNATE SMITCH (85S1)	AAS253	17	10 CP
5.75	CAGE - SEAM	THROFTLE QUADRANT (711A1)	ADS254	18	10 CP
255	WEAPON SELECTOR - GUN	CONTROL STICK (20A4) HANDGRIP (20A4A2)	ADS2255	18	2 CP
256	WEAPON TRIGGER - DEPRESSED	CONTROL STICK (20A4) HAND GRIP (20A4A2)	ADS256	18	20 CP
257	STATION 1A SIDEWINDER - PWR INTLK (28VDC KIN)	STATION 1A OUTBOARD SIDEWINDER	AGS257	61	2 CPI
258	STATION 1B SIDEWINDER - PWR INTLK (28VDC RIN)	STATION 1B INBOARD SIDEWINDER	AGS2538	19	2 CP
526	STATION 8A SIDEWINDER - FWR INTLK (28VDC RIN)	STATION BA OUTBOARD SIDEWINDER	AGS259	19	2 CP
560	STATION 8B SIDEWINDER - PWR INTLK (28VDC RIN)	STATION 8B OUTBOARD SIDEWINDER	AGS260	19	2 CP

TABLE A-4. TRANSDUCERS (SHEET 9 OF 13)

(1)

LTEM	SIGNAL NAME/FUNCTION	STGNAL SOUNCE	IDENT	FIG	RATE
261	STA 4F AIM-7 FWR - ENABLE	LOCIC TIMING CONTROL C-90341/AWG-9 (27A24A3)(720)	AGS261	50	2 CPF
562	STA 5F AIM-7 FWR - ENABLE	LOGIC TIMING CONTROL C-90341/AMG-9 (27A24A3)(720)	AGS262	20	2 CPF
263	STA 3F AIM-7 FWR - ENABLE	LOGIC TIMING CONTROL C-90341/AMG-9 (27A24A3)(720)	AGS263	50	2 CPF
264	STA 6F AIM-7 FWR - ENABLE	LOGIC TIMING CONTROL C-90341/AMG-9 (27A24A3)(720)	AGS264	50	2 CPF
592	STA 1B AIM-7 FWR - ENABLE	LOGIC TIMING CONTROL C-90341/AMG-9 (27A24A3)(720)	AGS265	20	2 CPF
566	STA 8B AIM-7 FWR - ENABLE	LOGIC TIMING CONTROL C-90341/AMG-9 (27A24A3)(720)	AGS266	20	2 CPF
267	MSI. AUX FWR - ENABLE	LOGIC TIMING CONTROL C-90341/AMG-9 (27A24A3)(720)	AGS267	50	2 CPF
568	AIM 54 HTR FWR - ON	WEAPON CONTROL SYSTEM AN/AMO9 and AIM 54 LIQUID COOLING SYSTEM	AGS268	20	0,1 CPS
569	STA 1B AIM-7 BATTERY - ARM AND HYDR - ENABLE	LOGIC TIMING CONTROL C-90341/AWG-9 (27A24A3)(720)	AGS269	20	2 CPF
270	STA 3F AIM-7 BATTERY - ARM AND HYDR - ENABLE	LOGIC TIMING CONTROL C-90341/AMG-9 (27A24A3)(720)	AGS270	20	2 CPF
271	STA 4F AIM-7 BATTERY - ARM AND HYDR - ENABLE	LOGIC TIMING CONTROL C-90341/AMG-9 (27A24A3)(720)	AGS271	50	2 CPF
272	STA 5F AIM-7 BATTERY - ARM AND HYDR - ENABLE	LOGIC TIMING CONTROL C-90341/AMG-9 (27A24A3)(720)	AGS272	20	2 CPF
273	STA OF AIM-7 BATTERY - ARM AND HYDR - ENABLE	LOGIC TIMING CONTROL C-90341/AMG-9 (27A24A3) (720)	AGS273	20	2 CPF
274	STA 8B AIM-7 BATTERY - ARM AND HYDR - ENABLE	LOGIC TIMING CONTROL C-90341/AMG-9 (27A24A3) (720)	AGS274	50	2 CPF
275	AIM-7 MOTOR FIRE - SEL	AIMAMENT PANEL (85A1)	AGS275	50	2 CPF
576	DATA LINK ANTENNA - SELECT	DATA LINK SYSTEM	RUS276	27	
277	INST - ON	SYS TEST - SYS PWR PANEL (790A1)	XAS277	43	
278	CMD SPD - RETURN	DATA LINK SYSTEM	FLS278	15	
279	WEAPON SELECTOR - SW	CONTROL STICK (20A4) HAND GRIP (20A4A2)	YAS279	19	
280	MSL STEPPING SW - DEPRESSED	CONTROL STICK (20A4) HAND GRIP (20A4A2)	YASZEO	19	
281	WEAPON SELECTOR SW - PH SP	CONTROL STICK (20A4) HAND GRIP (20A4A2)	YAS281	50	
282	MODE 1 - ENABLE	IFF CONTROL PAREL (O9AL)	SXSSB2	10	
283	MANUAL IFF EMERGENCY - ENABLE	IFF CONTROL PANEL (09A1)	SXS283	10	
284	MODE 2 - ENABLE	IFF CONTROL PANEL (09A1)	SXS284	10	
285	MODE 3A - ENABLE	IFF CONFROL PANEL (O9A1)	SXS285	10	
286	SENSITIVITY CONTROL - NORMAL	IFF CONTROL PANEL (09A1)	8xs286	10	
287	STANDBY CONTROL - OPERATING	IFF CONTROL PANEL (09AL)	SXS287	, 01	
288	FWR RELAY CONTROL - ENABLE	IFF CONTROL PANEL (09A1)	SXS288	10	

TABLE A-4. TRANSDUCERS (SHEET 10 OF 13)

ITEM	SIGNAL NAME/FUNCTION	SIGNAL SQURCE	IDENT	FIG.
500	INSTRUMENT LITING R1 - ON	D/L REFLY - INFRA LIGHT CONTR PANEL (724A1)	LHS500	4.5
501	WHITE FLOOD-DIM	D/L REFLY - INTRA LIGHT CONTR PANEL (724A1)	LHS501	45
205	WHITE FLOOD-BRT	D/L REPLY - INTRA LIGHT CONTR PANEL (724A1)	LHS502	45
503	CONSOLE LITING - ON	D/L REPLY - INFRA LIGHT CONTR PANEL (724A1)	LHS503	45
200	ACM - ON	MASTER LIGHT CONTROL PANEL (713A1)	LHS504	45
505	INSTRUMENT R3 - ON	MASTER LIGHT CONTROL PANEL (713A1)	LHS505	45
906	WHITE FLOOD - OFF	MASTER LIGHT CONTROL PANEL (713A1)	1.HS506	45
507	CONSOLE P4 - ON	MASTER LIGHT CONTROL PANEL (713A1)	LHS507	45
508	ACM RI - OFF	MASTER LIGHT CONTROL PANEL (713A1)	LHS508	45
606	LEFT AUX FLAP - EXTEND	LEFT AUX FLAP EXTEND SW (5183)	CKS509	53
510	RIGHT AUX FLAP - EXTEND	RIGHT AUX FLAP EXTEND SW (51S4)	CKS510	53
511	RIGHT INBOARD MANEUVER FLAP - EXTEND	KICHT INBOARD MANEUVER FLAP SW (51S2)	CKS511	53
512	LEFT INBOARD MANEUVER FLAP - EXTEND	LEFT INBCARD MANEUVER FLAP SW (51S1)	CKS512	62
513	WING POS - > 210	WING POS SW (51A5)	CKS513	53
514	WING FOS - > 50°	WING POS SW (51A5)	cks514	56
515	MASTER RESET - DEPRESSED	FUEL MANAGEMENT PANEL (707A1)	CKS515	53
916	MG SWP	MASTER TEST FANEL (734A1)	MJS516	53
517	ADC ALTITUDE - RELIABLE	AADC (05A1)	FKS517	53
518	IND LT - ON	SP TEST PANEL (720A1)	BUS518	94
919	R AUTO/STOW - STOW	INLET RAMES/ENG CHANK (710A1)	KAS519	94
200	L AUTO/STOW - STOW	INLET RAMES/ENG CHANK (710A1)	KASS20	94
221	FIRST R COMP SW - NOT STOW	FIRST R COMP. RAMP SW (32S6)	KCS521	94
22	SECOND R COMP SW - NOT STOW	SECOND R COMP. RAMP SW (32S7)	KCS522	94
833	FIRST R TRAIL - NOT TRAIL	FIRST R TRAIL SW (32S5)	KCS523	94
改	FIRST L COMP SW - NOT STOW	FIRST L COMP RAMP SW (3252)	KCS524	94
822	SECOND L COMP SW - NOT STOW	SECOND I. COMP NAMP SW (32S3)	KC85/25	94
526	FIRST L TRAIL - NOT TRAIL	FIRST L COMP TRAIL SW (32S1)	KCS526	94
123	WING SWP DETENT - ENGAGED	DETENT POS SW (50A2)	CKS 527	94
258	L WING SEAL DUMP VALVE - OPEN	L WING SEAL DUMP VALVE (501.3)	QAS528	94
625	R WING SEAL DUMP VALVE - OPEN	R WING SEAL DUMP VALVE (5012)	QAS 529	94
530	R GEN CONTROL - NORM	r(😂) master gen fml (716a1)	POS530	94
531	R GEN CONTROL - TEST	R(S2) MSDYRT HRN PML (716A1)	POS531	94
532	R GEN CONTROL PWR - ON	R VOLTAGE REG CONT (66A2)	POS532	94

TABLE A-4. TRANSDUCERS (SHEET 11 OF 13)

ITEM	SIGNAL NAME/FUNCTION	SIGNAL SOURCE	IDENT	FI
533	L GEN CONTROL - NOHM	L(SI) MASTER GEN PNL (716A1)	POS533	94
534	L GEN CONTROL - TEST	I(SI) MASTER GEN PNL (716A1)	POS534	94
535	I. GEN CONTROL FUR - ON	1. VOLTAGE REG CONT (66A1)	POS'535	94
536	R RECTIFIER FWR - ON	R VOLTAGE REG CONT (66A2)	POS536	94
537	L RECTIFIER PAR - ON	L VOLTAGE REG CONT (66A1)	POS537	94
538	R DC PMR - ON	R XFMR - RECT (67TIZ)	PAS538	94
539	L DC PWR - ON	L XIMR - RECT (67TR1)	PAS539	94
50	L ENGINE OIL PRESSURE - LOW	L ENG, OIL PRESSURE SW (70A2)	EPS540	94
541	R ENGINE OIL PRESSURE - LOW	R ENG, OIL PRESSURE SW (70A2)	EPS541	94
23	ICE PROBE - ON	ICE-DETECTOR (39A1)	HAS543	94
744	CANOPY SW - OPEN	CANOPY SW (70S1)	PUS-544	94
545	FILOT OXY PR - LOW	PILOT OXY PRESS. WARNING SW (41S1)	WHS545	94
946	NFO OXY PR - LOW	NFO OXY PRESS WARNING SW (41S2)	945SHW	94
547	BOARDING LADDER - DN	BOARDING LADDER	742 Sud	94
548	COOLING AIR = OVERHEAT	COOLING EFFECT CONTROLLER	HNS548	94
675	RADAR TEST EN - RADIATE & SCAN	RADAR TEST EN CONTR PUL (27A37)	6458VS	917
550	BLEED MANIFOLD SW - > 475°F	BLEED MANIFOLD 4750 OVERTEMP SWITCH (42A7)	HCS550	43
551	WSHILD HEAT - ON	SYSTEM TEST PANEL (790A1)	HCS551	43
555	FIRE SHORT - ON	SYSTEM TEST PANEL (790A1)	FPS552	43
553	LLANK PULSE - ON	SYSTEM TEST PANEL (790A1)	SNS553	43
524	FIRE DET - ON	MASTER TEST PANEL (734A1)	WGS 554	43
555	L. ALARM LAMP - ON	LEFT ALARM CONTROL (71A2)	WGS555	43
955	R. ALARM LAMP - ON	RIGHT ALARM CONTROL (71A1)	MGS556	43
557	SPD BRAKES - HOLD	THROTTLE QUADRANT (711A1)	NAS557	43
558	SPD BRAKES - EXT	THROTTLE QUADRANT (711A1)	NAS558	43
655	LWR SPD BRAKE - IN	LOWER SPEED BRAKE POSITION SWITCH (78SL)	NAS559	43
999	UPPER SPD BRAKE - OTHER	UPPER SPEED BRAKE POSITION SWITCH (7852)	NAS560	143
261	MASTER TEST - INST	MASTER TEST PANEL (734A1)	195snd	43
362	NO. 1/NO. 2 - AC/DC RELAYS - ENERGIZED	AC IWR SWITCH ASSEMB (67A2), DC IWR SWITCH ASSEMB (67A3)	MJS562	43
563	OBC	MASTER TEST PANEL (734A1)	MJS563	43
564	EMERG GEN	MASTER TEST PANEL (734A1)	MJS564	43
595	MACH LEV	MASTER TEST PANEL (734A1)	MJ8565	43
995	MG SWP	MASTER TEST PANEL (734A1)	MJS566	43
195	TEST INITIATE - ON	ADC (05A1)	NJS567	43

TABLE A-4. TRANSDUCERS (SHEET 12 OF 13)

(3)

F1G.	143	43	143	43	43	43	43	43	43	43	43	94	94	94
IDENT	WFS568	WFS569	015SAM	WFS571	WFS572	WGS573	phs5th	575SDD	9125mg	DES577	DES 578	DHS579	DHB580	1858HQ
SIGNAL SOUNCE.	SEAT BUCKET HEIGHT ADJUSTMENT SWITCH (38A2SI)	SEAT BUCKET HEIGHT ADJUSTMENT SWITCH (38A2SL)	SEAT BUCKET HEIGHT ADJUSTMENT SWITCH (38A1SI)	SEAT BUCKET HEIGHT ADJUSTMENT SWITCH (38A1SI)	EJECT MODE SELECTOR SWITCH (70S3)	SYS. TEST - SYS FWR PANEL (790A1)	MACH LEVER CONTROL UNIT (46A1)	MACH LEVER CONTROL UNIT (46A1)	MACH LEVER CONTROL UNIT (46A1)	AUX FUEL TANK AIR FRESSURE SWITCH (62S5)	AUX FUEL TANK AIR PRESSURE SWITCH (625)	RIGHT AIR INLET CONTROL PROGRAMMER (32A7)	LEFT AIR INLET CONTROL PROGRAMMER (32A7)	LEFT AIR INLET CONTROL PROGRAMMER (32A7)
SIGNAL NAME/FUNCTION	NFO SEAT HEIGHT - UP	NFO SEAT HEIGHT - DOWN	PILOT SEAT HEIGHT - UP	PILOT SEAT HEIGHT - DOWN	EJECT MODE SELECTOR - PILOT	FIRE SHORT - SELECTED	FAULT SIGNAL - LEFT	FAULT SIGNAL - RIGHT	GO SIGNAL	AIR PRESS > 10.5 PSIG	AIR PRESS < 6.5 PSIG	R-AICS HYDR - ON	L-AICS HYDR - ON	L-AICS - 28VDC
ITEM	568	695	570	177	572	573	574	575	925	1775	878	579	580	581

TABLE A-4. TRANSDUCERS (SHEET 13 OF 13)

IDENT	TES700	TES701	TESTOR	TES703	TES704	TES705	TES706	TESTOT	TES708	RPS709	RF5710	RPS711	RPS712	RPS713	RPS714	RPS715	RPS716	RPS717	SXS718	FR\$719	THS720	TBS721	TBS722	TBS723	TBS724	TBS726	TEST27	THS728	THS729
SIGNAL SOURCE	LEPT LOAD SAPETY SMITCH (2553)	RIGHT LOAD SAFETY SWITCH (25S4)	SYS TEST/SYS FWR PANEL (790A1)	ALQ-100 RECEIVER - TRANSMITTER (23A3)	ALQ-100 RECEIVER-TRANSMITTER (23A3	NOF CAUTION ADVISORY INDICATOR (69A2A1	AFR27 RECEIVER (22A6)	CHAFF/FLARE DISPENSE PANEL (25A2)	ALQ-100 RECEIVER-TRANSMITTER (23A3)	NFO MAIN-DATA LINK CONTROL PANEL (15A2)	PILOT MAIN-DATA LINK CONTROL PANEL (15A1)	PILOT MAIN-DATA LINK CONTROL PANEL *15A1)	NFO MAIN-DATA LINK CONTROL PANEL (15A2)	CSDS (OTA1)	MASTER TEST FAMEL (734A1)	SYS TEST - SYS FWR PANEL (790A1)	PILOT MAIN DATA LINK CONTROL PANEL *15A1)	NFO MAIN DATA LINK CONTROL PANEL (15A2)	IFF CONTROL PANEL (09A1)	P/O HAND CONTROL (27A20) (560) WCS SWITCH	INFRARED AMPLIFIER *27A22) (120)	RADAR TRANSMITTER (27A8) (011)	REGULATED FOWER SUFFLY (27A24A4) (610) (HYDRAULICS ON)	RADAR ANTENNA (27A2) (031)	REGULATED FOWER SUPPLY (27A24A4) (610) (WCS 28VDC EXT)	RADAR TEST EMABLE CONTROL PANEL (27A37)	REGULATED POWER SUPPLY (27A24A4) (610) (DC REG ON ENABLE)	P/O HAND CONTROL (27A20) (560) IR/TV SWITCH	P/O HAND CONTROL (27A2O) (560) IR/TV SWITCH
SIGNAL NAME/FUNCTION	LEFT - TOOL IN	RIGHT - TOOL IN	ALE-29 - SELECTED	ALQ-100 - NO GO	STANDBY - INDICATION	LAMP TEST - GND	MISSILE - ALERT/LAUNCH	PILOT DISPENSE COMMAND - ENABLE	REFEAT MODE - SELECT	NFO ASW27 - ON	PILOF ASW27 - ON	PILOT - FORCED REPLY	NFO - FORCED REPLY	CAINS - ALIGN	D/L RAD - SELECTED	ASW27 - SELECTED	PILOT - CANCEL REF.Y	NFO - CANCEL REFLY	MASTER - EMERG	WCS - STDBY/SMIT ON SELECT	IR COOLING - INTERLOCK	OIL FLOW > 1.0 GPM	HYDRAULICS - ON	THEIMAL SWITCH - CLOSED	WCS 28VDC - EXT	RADAR TEST ENABLE - SCAN ONLY	DC REG ON - ENABLE	IR/TV ON - SELECT	IR/TV STBY - SELECT
ITEM	700	701	202	703	704	205	902	707	708	602	710	711	712	713	7114	71.5	716	717	71.8	612	720	721	722	723	724	726	727	728	729

Appendix B FUNCTIONAL DIAGRAM DATA TABULATION

-						
SHEET 1	13 Conditioning Technique	Solid State	Solid State	Solid State	Solid State	Solid State
PTGURE 1 SHEET 1	12 Associated Boolean Equation	64	23.7 26.2 26.2 26.2 26.4 26.3 26.4 26.5 26.5 26.5 26.5 26.5 26.5 26.5 26.5	86 7 8 8 8 8 9 9 8 8 8 8 9 8 9 8 8 8 9 9 9 8 8 8 9	88.88	988
	11 Reference Drawings	INSPD FIG.	IWSPD FIG.1 Zone 83C (See Land- ing Gesr Sefety - Interlock System A51	Ako Yata, and Ilwsp rig. 31	IWSFD FIG.1 Zone 85A	Zone ByA
	10 Operational Address	03P01	10490	отго	оты	отью
	9 Conventional Switches Being Replaced or Deleted	DPUT Limit Switch (51A5)	4 Py Limit Switch (4831)	(4832)	Triple Fole, Double Throw Center Off Slide Switch (710 Al)	Triple Pole Double Throw Center Off Slide Switch (71041)
TRANSDUCERS	Associated Loads	1) K53, K57 Releys (Right Glove Reley Box 772A1)	KIO, K29, K96, K31, K30, K13, K12, K2, K32 (Right Glove Relay Box)	K20, K17, K2, K65, K2, K89, K22, K8, (Left Glove Helsy Box)	Mudder Trim Actustor (20A17)	Rudder Trim Actuator (20A17)
TABLE I F-14 SOSTEL SIGNAL TRANSDUCERS	7 Present Signal Characteriatics	Open or Switch- ed 28 VDC	Open or Switch- ed 28 VDC	Open or Switch-ed 28 VDC	Open/28 VDC Open/115V ØB or ØC Open/115V ØA	See Item O21
TABLE I P	6 Transducer Type	Limit Switch (DPDT)	Limit Switch (4.PbT)	(i.PM)	Slide Switch (TMDTCO)	(THDUCO)
	5 Point of Origin	FS 435	Left M.6 (M100) (FS570)	Night Mig (Wiloo) (FSS70)	Pilots left Side Console (F2225)	Filots Left Side Console (FW25)
	4 Signal Source Box Identification	Wing Position Switch (51A5)	Left MLG Safety Switch (4882)	Right MG Safety Svitch (48%	Inlet Kamps/Eng Crank/Throttle Control Fanel (710Al)	Inlet Romps/Eng Crank/Throttle Control Banel (710A1)
	3 Identifier Code	CKS001	CD3005	abs10e	CJS021	CJSQK2
	2 Signal Name/Function	< 62° Wing Sweep	Left M.G - Weight on Wheels	Hight M.G	Rudder Trim Switch - Left	Rudder Trim Switch - Right
	Table Ites #	100	Se Se	981	13	255

FIGURE 1 SHEET 2	13 Conditioning Technique	Solid State	Solid State	External Signal Adapter	Solid State	Solid State
FIGURE 1	12 Associated Boolean Equation	990	386	95.5 30 30.5 30 30.5 30 30.5 30 30.5 30 30.5 30 30.5 30 30.5 30 30 30 30 30 30 30 30 30 30 30 30 30 3	200 200 265 233 273 273 270 735	100 264 289 262 265 284 263 273 295 273 735
	11 Reference Drawings	INSPD PLE.1 Zone 860	INSED PLE.1 Zone PGC	INSPD FIG.1 Zone 18C, 85C	Zone 70C	Zone 70C
	10 Operational Address	10420	Serve Serve	OSIOI	OFFICE	0/103
	9 Conventional Switches Being Replaced or Deleted	Control Stick Trim Switch	Control Stick Trim Switch	N/A	Comb Hyd Pressure Switch (6351)	Fit hyd Fressure Switch (6352)
TRANSDICERS	6 Associated Loads	KS Nose Up Trim Relay (Left Glove Relay Box 773A1)	K53 Nose Ivn Tria Relay (Left Glove Relay Box 773A1)	KSS Manual Trim Control Relay (Right Glove Relay Box 772A1)	a) External Else For Contactor ((66463) discrete bly fitch Computer Dis- crete puer Dis- crete crete d) Soli Con- crete crete	Computer Discrete Discrete Discrete Discrete Computer Discrete c) Noll Com-
TABLE I F-14 SCETEL SIGNAL THANSDICERS	Present Signal Characteristics	Trim up = 28 VMC Trim up = Open	Trim Dan = 280DA Trim Dan = Open	Att. Hold Selected - 28 VDC Att. Hold Selected - Open or Graf?	Kornal 228 Vpc Lov = Open	Normal =285/DC Low-Open
TABLE I	6 Trensducer Type	4 Position Rotary Switch	k Fesition Rotary Switch	Voltage Sensing Adspter	Pressure Satch	Fresure
	5 Point of Origin	Phots Cockpit (FE225)	Pilots Cockpit (F225)	Filots Left Side Console (FS225)	(F3625)	(F3625)
	l _t Signal Source Box Identification	Control Stick (20A) Herd Grip (20A)A2) Trens- ducer Assy (20A)A1)	Control Stick Pilots (2044) Hand Grip Cockpit (2044/R) Transducer (F225) (Assy (2044al)	(2049	Comb Hyd Pressure Switch (6331)	Fit Mod Pressure Switch (632)
	3 Identifier Code	CF30R3	c PSOR4	CF3025	DIE031	риво зе
	2 Signal Name/Function	Trim Switch-up CFSXR3	Trim Switch- Bown	Attitude Hold Selected	Combined thy- minuite Pres- sure Switch- Mormal (>2100FSI)	Fit Hyd Pressure Switch - Hormal (>2100FSI)
	Table Item	8	3	કે	88	30

SHEET 3	13 Conditioning Technique	Solid State
MOUNE 1 SHEET 3	12 Associated Boolean Equation	101
	11 Reference Drawings	Zone 37B - Zone 37B - L
	Operational Address	02F03
	9 Conventional Switches Being Neplaced or Deleted	Autopliot engage Nose Wheel Steering pushbutton switch
THANSDUCERS	8 Associated Loads	a) Pitch Computer (2002) b) Koli Com- puter (2003)
TABLE I P-14 SCOTEL SIGNAL THANSDUCERS	Present Signal Characteristics	Disergage=Open
TABLE I P	6 Transducer Type	Switch Switch
	5 Point of Origin	Cockpit (FSZ25)
	signal Source Box Identification	Control Stick (2004) (2004) (2004A2)
	3 Identifier Code	GHE033
	2 Signal Name/Function	Autopilot Ei- gege Kose- kheel Steering - Eigene
	lable Ites	633

SHEET 4	13 Conditioning Technique	Solid State	Solid State	Solid State	Solid State	Solid State	Solid State
FIGURE 1 SHEET 1	12 Associated Boolean Equation	306	303 304	303 304	304 717	305	306.
	11 Reference Drawings	INSPD FIG.1 Zone 72C	INSED FIG.1. Zone 77A	IWSFD F1g.1 Zone 73C	Zone 37A	INSFD PAG.1	Zone PGC
	10 Operational Address	ospor	OCPO4	отно	60dT0	*odeo	Source
	9 Conventional Switches Being Replaced or Deleted	Wing Position Switch Wing Sweep Less than 57º (28VDC)	Left Flap Position Switch (2012)	Hight Map Position Switch (2051)	DLC Engage Chaff Dispense Push- button Switch	Control Stick Trim	Switch Stick Trim
TRANSDUCERS	8 Associated Loads	Roll Con- puter (20A3)	KI ADC Switching Assembly (20A4)	NZ ADC Switch- ing Assembly (2004)	a) Pitch Cmptr (20A2) b) Boll Com- ptr (20A3) c) KB3-DLC trim servo engage F/O Right Glove Relay Box (772A1)	K55 - Left Trim P/O Left Glove Relay Box (773A1)	Kyl - Right Wing Trim For Clove Relay Box (773A1)
TABLE I F-14 SOSTEL SIGNAL THANSDUCERS	7 Present Signal Characteristics	< 57° = Switched Roll Com- 28VDC puter (20) > 57° = Open	2890 = Switched 2890c < 250 = Open	2850 = Switched 28VDC < 250 = Open	ON - Skitched 28 VDC OFF - Open	Left Trim = Switched 28VDC Left Trim Not = Open	Right Tris Switched 28VDC. Right Tris Not- Open
TABLE I	6 Transducer Type	Limit Switch DPFr	Limit Switch SPOT	Limit Switch SFDT	Pushbutton Switch SP	h Position Rotary Switch	4 Position Rotary Switch
	Point of Origin	FS 540 WL 170	left Wing 18625 BL360	Night Wing 13625 BL360	Plots Cockpit FE25	Pilota Cockpit F225	Hlots Cochpt FEE25
	ly Signal Source Box Identification	P/O Wing Position Switch (51A5)	Left flap Position Switch (2052)	Might Flap Position Might Limit Switch (2031) Wing PS629 SPUT BL360	DLC Engagechaft Dispense Pumbutton Stick (20M.)	F/O Control Stick (2004) - Hend Grip (2004A2) Trim Switch	F/O Control Stick (2004) - Herd Grip Switch
	3 Identifier Code	११८५५०	CGS217	812800	196219	CF5220	CFS221
	2 Signal Name/Function	Wing Sweep - < 570	Left Flap - 2 250	Right Flap -	DLC Engage CharfDt spense- ON	Left - Tris	Right-Trim
	Table Ita	216	217	218	219	520	122

(3)

13 Conditioning Technique	Solid State	Solid State	Resistor Divider Adepter	Resistor Divider Adapter	Resistor Divider Adapter	Registor Divider Adepter	hezistor Divider Adapter
12 Associated Boolean Equation	868	312 313	320 313	310	311 315	314 312	24.
11 Reference Drawings	IWSFD FIG.1 Zone 70A	IMSPD FIG.1 Zone 70A	INSPD FIG. 1 Zone 765	1WSPD F1g.1 2one 750	1WSPD F1g.1 2one 798	IMSPD Fig.1 Zone 78B	Zone 76A
10 Operational Address	40410	01100	отъоз	OTPOA	orros	90400	06405
9 Conventional Switches Being Replaced or Deleted	Master Reset Push- button	Anti-Skid/Spoiler BK Switch	N/A	N/A	N/A	NA	N/A
8 Associated Loads	Fitch CMPTR Yaw CMFTR Roll CMFTR (Master Re- set Signal)	Fitch CMFTR Kell CMFTR (Gnd Kell Breking Sig- nel)	K77-Grd Roll Braking No.2 (R. Glove Relay Fox 772Al)	K77 - Gad No. 2 (R. Glove Relay Box 772A1)	K56 - Grd Holl Braking Ho. 1 (R. Glove Helsy Box 772A1)	Ky6 - Bud Roll Breking No. 1 (R. Glove Relay (Box 77221)	
7 Present Signal Characteristics	Depressed = Switched 28VDC Depressed Not = Open	Spoiler BK = Switched 28VDC OFF= Open			28VDC 28VDC 00 = Open	> 0° = Switched 26VDC 0° = Open	Limit Switch <180 = Switched 28 VDC <180 = Open
6 Transducer Type	3 Pole Push- button	Toggle SFDT	SPOT	Limit Switch SPDT	Limit Switch	SPDT Switch	SPVT Switch
5 Point of Origin	Plots Left Ver- ties Con- sol FS 225	Filots Left Ver- tical Con- sole FS225	Right Wing FS 600 Bl. 320	Right Wing FS 600 BL 260	Right Wing FS 600 BL 240	Right Wing. FS 600 BL 200	Left Wing FS 600 BL 240
ly Signal Source Box Identification	Fuel Menagement (707Al) Mester Weset Fushbutton	Fuel Menagement (707Al) Anti Skid/Spoiler BK Switch	No. 4 Fight Spoiler Actuator (20A31)	No. 3 Fight Spoiler Actuator (20430)	No. 2 Right Spoiler Actustor (20A29)	No. 1 Right Spoiler Actuator (20A28)	No. 2 Left Spoiler Actuator (20A25)
3 Identifier Code	ucses2	CDS223	CG\$224	52855	CGSK26	LZZS5.3	CGS228
2 Signal Name/Function	Master Reset - Depressed	Anti Skid/ Spoiler BK - Spoiler BK	No. 4 Right Spoiler - > 00	No. 3 Right Spother -> 00	No. 2 Right Spotler - > 0 ⁰	No. 1 Right Spoiler - > 00	No. 2 Left Spoiler -<180
Table Ita	335	52	224	525	226	122	228
	Signal Identifier Signal Source Point of Transducer Present Signal Associated Associated Name/Punction Code Box Identification Origin Type Characteristics Loads Replaced or Deleted Address Drawings Equation	Signal Identifier Signal Source Point of Transducer Present Signal Code Box Identification Origin Type Characteristics Loads Replaced or Deleted Address Drawings Repartion Depressed (707A1) Master Habbutton Sol 78 229 (707A1) Master Habbutton Sol 78 229 (707A1)	Signal Identifier Signal Source Foint of Transducer Present Signal Conventional Code Box Identification Origin Type Characteristics Loads Replaced or Deleted Switches Being Address Present Signal State Photos Pho	Heater Raset - UCE222 Puel Menagement (10741) Phase Puel Spoiler BK - Spoiler B	Part Part	Part Part	Market React Lucaze Code Ray Superior Code Ray Code Code

SHEET 6	13 Conditioning Technique	Resistor Divider Adepter	Hesistor Divider Adepter	kesistor Divider Adapter	Resistor Divider Adspter	Resistor Divider Adspter	Solid State	Resistor Divider Adepter	Nesistor Divider Adapter
FIGURE 1 SHEET 6	Associated Boolean Equation	315	315	315	312	312	312	313	313
	11 Reference Drawings	IWSPD F1g. 1. Zone 74A	IWSFD FIG. 1 Zone 79B	INSFD FIG. 1 Zone 78B	INSFD Fig.1	IWSFD FIG. 1 Zone 82B	IWSFD Fig. 1 Zone 81A	INSED Fig.1 Zone 76B	Zone 75B
	10 Operational Address	90490	OTPOT	отров	Todoo	90490	02P06	06P09	01490
	9 Conventional Switches Being Replaced or Deleted	N/A	м/м	N/A	N/A	N/A		N/A	N/A
THANSDUCERS	Associated Loads								
TABLE I 1-14 SUSTEE STUME TRANSDUCERS	7 Fresent Signal Characteriatics	< 180 = Switched 28VDC 2 180 = Open	< 18° = Switched 28VDC 2 18° = Open	< 18° = Switched 28VDC 2 18° = Open	Left Stick/ Normal = Switched 28VDC Hight Stick = Open	kight Stick/ Normal = Switched 28VDC Left Stick = Open	Stick SW = switched 28VDC Stick SW = Open	< 18° = Switched 28VDC 2 18° = Open	< 180 - Open
TABLE 1	6 Transducer Type	Limit Switch SPDT	Right Wing Limit Switch FS600 SFDT BL240	Right Wing Limit Switch FSGOO SPDT BL200	Limit Switch DFDT	Limit Switch DPDT	12 Position Rotary Switch with Push Test	Limit Switch	Limit Switch
	5 Point of Origin	Left Wing FS600 BL200	Right Wing FS600 BL240	Right Wing FS600 BI200	18625	F3625	Filots Right Side Console FS225	Left Wing FS600 BI260	Left Wing FS600 BL320
	Signal Source Box Identification	No. 1 Left Spoiler Actuator (20A24)	No. 2 Right Spoiler Actuator (20A29)	No. 1 Hight Spoiler Actuator (20A2B)	Koll Switch Assembly (20A32)	Holl Switch Assembly (20A32)	Master Test Panel (734A1)	No. 3 Left Spoiler Actuator (20A26)	No. 4 Left Spoiler Actuator (20027)
	3 Identifier Code	0.03229	062530	162500	26.25.35 COS2.36	CGE233	162500	CGS235	96.329
	2 Signel Name/Function	No. 1 Left Spotler - <180	No. 2 Right Spoiler - <180	No. 1 Right Spoiler - <180	Left Stick/ Normal	Rught Stick/ Normal	Stick SW	No. 3 Left Spoiler - <18º	No. 4 Left Spoiler - <18°
	Table Ite	559	530	231	ž	33	234	535	236

SHEET 7	13 Conditioning Technique	Resistor Divider Adapter	Resistor Divider Adapter	Resistor Divider Adapter	Resistor Divider Adepter	Resistor Divider Adepter	Registor Divider Adepter	Resistor Divider Adapter	Resistor Divider Adepter	
FIGURE 1	12 Associated Boolean Equation	313	313	315	315	316	316	31.7	31.7	
	11 Reference Drawings	IWSFD F1g.1 Zone 75C	IWSFD FIG. 1 Zone 760	IWSFD F1g.1 Zone 76A	IWSFD Fig. 1 Zone 74A	INSFD F1g.1 Zone 76A	INSFD FIG.1 Zone 74A	IWSPD FIG. 1 Zone 78B	Zone 796	
	10 Operational Address	07100	07P10	11d90	06P12	06P13	96P14	оти	orriz	
	9 Conventional Switches Baing Replaced or Deleted	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
TRANSDUCERS	8 Associated Loads		•	Control Sur- face Posi- tion Indica- tor (64M)	ControlSur- face Posi- tion Indica- tor (64M)	Control Sur- face Posi- tion Indica-	Control Sur- face Fosi- tion Indica- tor (64M)	Control Sur- face Posi- tion Indica- tor (64ML)	Control Sur- face Posi- tion Indica-	
ZABLE I F-14 SOSTEL SIGNAL TRANSDUCERS	7 Present Signal Characteristics	< 18° - Switched 28VDC 2 18° - Open	< 18° = Switched 28VDC 2 18° = Open	> 0° = Switched 28VDC 0° = Open	Limit Switch > 0° = Switched 28VDC 0° = Open	-4.50 = Switched Control Sur- 28VDC face Posi- -4.50 = Open tion Indica- tor (GAMI)	-4.50 = Switched Control Sur- 28VDC face Posi- -4.50 = Open tion Indice- tor (6MM)	28VDc -4,50 = Switched Control Sur- 28VDc -4,50 = Open tion Indice- tor (GMM)	-4,50 = Switched Control Sur- 2800c face Post- -4,50 = Open tor (GMQ)	
TABLE I P.	6 Trensducer Type	Hight Wing Limit Sylten F3600 B1260	Right Wing Limit Switch PSGOO BL320	Limit Switch	Limit Switch	Limit Switch	Limit Switch	Right Wing Limit Switch FS600 81200	Hight Wing Limit Switch FS600 BL24.0	
	5 Point of Origin	Kight Wing F3600 B1260	Right Wing FS600 BL320	Left Wing FS600 BL24.0	Left Wing F3600 B1200	Left Wing F3600 B1240	Left Wing FS600 BL200	Right Wing F5600 BI200	Right Wing FS600 BL240	
	ly Signal Source Box Identification	No.3 Edght Spoiler Actuator (20A30)	No. 4 Right Spoiler Actuator (20A31)	No. 2 Left Spoiler Actuator (20A25)	No. 1 Left Spoiler Actuator (20A24)	No. 2 Left Spoiler Actuator (20A25)	No. 1 Left Spoiler Actustor (20A24)	No. 1 Right Spoiler Actuator (20A28)	No. Hight Spoiler Actuator (20A29)	
	3 Identifier Code	CC22237	86,2500	68.2300	042500	CGS24.1	242500	E NASSO)	ተነተረድው	
	2 Signal News/Punction	No. 3 Hight Spoiler - <180	No. 4 Hight Spoiler - <18º	No. 2 Left Spotler - > 00	No. 1 Left Spoiler - > 0 ⁰	No. 2 Left Spoiler - (-4.5°)	No. 1 Left Spoiler - (-4.50)	No. 1 Right Spoiler - (-4.50)	No. Right Spoiler - (-4.50)	
	It is	237	238	239	240	75.1	242	243	244	

PIGURE 1 SHEET 8	13 Conditioning Technique	Resistor Divider Adspter	Registor Divider Adepter	Registor Divider Adapter	Nesistor Divider Adapter	Resistor Divider Adapter	hesistor Divider Adapter	
PIGURE 1	Associated Boolean Equation	318	318	. 618	319	īλ.	ã.	
	A Perference Drawings	IWSFD F1g.1 Zone 76B	1WSFD F1g.1 Zone 74B	IWSFD FIG.1 Zone 76B	IWSFD Prg. 1 Zone 75B	1WSFD F1g.1 Zone 750	Zone 76C	
	10 Operational Address	06PL5	91490	04.117	91490	07P13	OTPI	
	9 Conventional Switches Being Replaced or Deleted	N/A	N/A	N/A	N/A	N/A	N.A.	
TRANSDICERS	Associated Loads	Control Sur- face Fosi- tion Indica- tor (GAM)	Control Sur- face Fosi- tion Indica- tor (64M)	Control Sur- face Posi- tion Indica- tor (GAMO)	Control Sur- face Posi- tion Indica- tor (GAM)	Control Sur- face Fusi- tion Indica- tor (64M2)	Control Sur- face Posi- tion Indica- tor (GMD)	
TABLE 1 F-14 SOSTEL SIGNAL THANSDICERS	Present Signal Characteristics	Limit Switch > 0° = Switched 2800c	Limit Switch > 0° = Switched 28VDC 0° = Open	-4.50 = Switched Control Sur- 28VDc face Posi- -4.50 = Open tion Indica- tor (GMM)	Limit Svitch -4.5° = Svitched Control Sur- 28WDC face Position -4.5° = Open tor (6MR)	-4.50 - Switched 28VDC -1.50 - Open	-4,5° = 3vitched 28VK: -4,50 = Open	
TABLE I F.	6 Transducer Type	Limit Switch	Limit Switch	Limit Switch	Limit Switch	Limit Switch	Limit Switch	
	Point of Origin	Left Wing F3600 B1260	Left Wing FS600 H.320	Left Wing FS600 BI260	Left Wing F3600 BL320	Right Wing FS600 BI260	Right Wing F2600 BL320	
	is Signal Source Box Identification	No. 3 Left Spoiler Actuator (20A26)	No, 4 Left Spoiler Actuator (20A27)	No. 3 Left Spoiler Actuator (20A26)	No. 4 Left Spoiler Actuator (20A27	Actuator (20A30) F3600 Limit Switch -4,50 = Switched Control Sur-Ricard (20A30) F3600 Face Post-F1.50 = Open tion Indice	No. 4 Right Spoiler Right Wing Limit Switch -4.5° = Switched Control Sur- Actumtor (20831) PSSOO PSS	
	3 Identifier Code	COSS245	942500	Lyasoo	81200	642500	05-2500	
	81gmal	No. 3 Left Spoiler - 200	Spoiler - x00	No. 3 Left Spoiler - (-450)	No. 4 Left Spoiler - (-4.50)	No. 3 Right Spoiler - (-150)	No. 4 Right Spoiler - (-4, 50)	
	-17	545	546	247	248	549	2,2	

	-1 -4W											
TOOLS OF THE PARTY	21	Associated Boolean Equations	700	a 00		003	8	8	900	700	90	8
	п	Reference Drewings	IWSPD FIR. 1 Zone 32A	IMSFD FIG. 1 Zone 66A,67A		IMSFD F1g. 1 Zone 41C	INSFD FIG. 1 Zone 41C	IWSFD FIG. 1 Zone 61C	INSFD FIG. 1 Zone 61C	INSFD FIR. 1 Zone 61C	INSFD FIG. 1 Zone 21C	IWSFD F18. 1 Zone 734, 754, 778, 798
	10	Identifier Code	CM.001	CFL002		00100	UCLOO	007100	0C1000	DCT001	9007301	CKLOO9
	6	Operational Address	11901			95414	05415	910%0	7.00%0	84000	91639	11403
DATE AT 1219 STATE CHER COLUMNIES AND UNITED	80	Conventional Devices Being Replaced	CB11 - Mech Trim AC (3 AMP) (35A6)	CBIO - Fit Control Authority AC (3 AMP) (35A6)		CB4 - Pitch CMPTR AC (5 AMP) (35A6)	CB6 - Auto Pitch Drive Trim (3 AMP) (35A6)	CB7 - Yew SAS "A" Pur Supply (3 AMP)(35A6)	CB9 - Yew SAS "M" Pur Supply (3 AMP) (35A6)	CB6 - Yaw SAS "B" Pur Supply (3 AMP) (35A6)	CB1 - Roll CMPTR AC (5 AMP) (35A6)	CB54 - Inboard Spoiler Contr (5 AMP) (36A2) K57 - Right Glove Box Relay
1000	1	P.C. Location										
NO 57-1 17 3780	9	Load Power Dissipation	115 VA 92 Watts - 69 VARS P.F. = -0.8	230 VA 207 Watts -100 VARS P.F. = -0.9								
•	5	Duty Cycle	Contin- uous 1006	Contin- uous 100%		Contin- uous 1000	Contin- uous 100%	Contin- uous 100%	Contin- uous 100%	Contin- uous 100%	Contin- uous 100%	
		Associated Loads	MACH Trim Actuator (20A15A2)	Control Actuator (20A22) Fixed Phase	2) Kell Authority Centrol Actuator (20A20) Fixed Phase	Fitch Computer (20A2)	Pitch Computer (20A2) Auto Pitch Drive Trim	Yew SAS Computer "A" Power Supply (20A1)	Yaw SAS Computer "M" Fower Supply (20A1)	Yaw SAS Computer "B" Power Supply (20A1)	Roll Computer 115 VAC OA (20A3)	# Left (2042), # Eleft (2045), # Hight (2049), P Hight (2049), Spoiler Actuator Solenoid Operated Control Valves
		Peting V & I	V = 115VAC (C) 1 = 3 AMP	V = 115VAC ØC I = 2 AMF		V - 115VAC ØA	V = 115VAC	V = 115VAC	V - 115VAC ØA	V = 115VAC ØA	V - 115VAC	V = 28VDC
	N	Type of Power Controller	AC-1 Pole	AC-1 Pole		AC - 1 Pole	AC- 1 Pole	AC - 1 Pole	AC - 1 Pole	AC - 1 Pole	AC - 1 Pole	DC - 1 Pole
	-	Table Item #	100	8		600	ŧ	902	98	100	900	\$

	_								
TION TO SHEET TO	2	Associated Boolean Equations	010	10		933	10	91.5	90
	п	Reference Drewings	IWSPD FIG. 1 Zone 74B, 74C, 75B, 75C	IWSFD FIG. 1 Zone 21C	IWSFD FIG. 1 Zone 61C	INSFD FIG. 1 Zone 61C	INSPD FIG. 1 Zone 57B	INSPD FIG. 1 Zone 61C Zone 82C	Justo Bec. 1
	97	Identifier Code	сктого	UCIOII	UCLOIP	UCI:013	UCLOLA	001.015	910120
	٥	Operational	11404	01055	610%0	02050	12050	05,022	014% oste33
TABLE 11 F. 14 SOLID STATE FORER CONTROLLERS AND DRIVERS		Conventional Devices Being Replaced	CB37 (5 AMP) Outbd Spoiler Contr (3GM) K53 - Hight Glove Box Relay	CB10 - Much Trim DC (5 AMF) (36A3)	CB41 - Yew SAS "A" (5 AMP) (36A2)	CBiO - Yaw SAS "B" (5 AMP)(36A2)	CB12 - Plt Contr Auth DC (5 AMP)(36A3)	CB39 - (5 AMP) Yev SAS "M" (36AP)	KIZ - MG Safety Hight Glove Box Relay (Sharea CBy with Yow SAS "W") Item 015
	1	P.C. Location							
No 57-2 11 3 10	9	Load Power Dissipation							
P	•	Duty		Contin- uous 100%	Contin- uous 100%	Contin- uous 100%	Contin- uous 100%	Contin- uous 100%	
		Associated Loads	#3 lert (20A26) # lert (20A27) # leght (20A30) # leght (20A31) Spoiler Actuator Solenoid Operated Control Valves	Roll Computer (20A3) Mech Trim 28VDC	Yaw SAS Computer (20A1) "A" Power Supply	Yaw SAS Computer (20A1) "B" Power Supply	1) Yew Computer (20A1) Roll Author- ity 26VDC 2) Yew Computer (20A1) Rudder Authority 26VDC	Yaw SAS Computer (20A1) "M" Power Supply	1) Roll SAS Computer (20A3) Weight on Wheels Signal (26 VDC) 2. Pitch SAS Com- puter (20A2) WGW (26VDC) 3) Yaw SAS Computer (20A1) WGW (26VDC)
		Peting V & I	V = 28VAC	V = 28VDC	V - 28VDC	V - 28VDC	v = 28VDC	V - 28VDC	V = 26VDC
	N	Type of Roser Controller	- 1 Pale	DC - 1 Pole	DC - 1 Pole	DC - 1 Pole	BC - 1 Pole	DC - 1 Pole	JC - 1 Pale
	-	Pable Ite.	010	110	210	013	710	ous	910

TOUR SHEET	ส	Associated Boolean Equations	710	986	790	990	640	86	160
	п	Reference Drawings	TWSPD FIR. 1 Zone 21A Zone 14 Zone 16A Zone 25A	IWSFD FIG. 1 Zone 3B, 85A 93B IWSFD FIG. 2 Zone 2	IWSFD Fig. 1 Zone 3B, 85A 93B IWSFD Fig. 2	JUSED FIG. 1 Zone 3A, 85B 93B IWSED FIG. 2 Zone 2	IWSFD FIG. 1 Zone 4.B, 858 93B NAVAIR 01-F14AAA-2- 2-9 FIG. 5	Zone 38, 87A 898	INSPD FIR. 1 Zone 3A, 87A 898
	01	Identifier Code	ncro17	631,086	CJ1.087	cJLO88	640 Tr	си.090	CFL.091
	6	Operational	01434	11405	90011	11407	11408	11609	01911
TABLE II F-14 SOLID STATE POMER CONTROLLERS AND DRIVERS	8	Conventional Devices Being Replaced	CB (3APP) 1NS Sync/ ACM Phù Lt (3SA ^b)	CB4 (5A) Rudder Trim PH A (35A2)	CB19 (5A) Radder Trim PH B (35A4)	CB9 (5A) Rudder Trim PH C (35A4)	CB7 L DC Test-Rudder Trim (36A2)	CB5 (5A) L PH A Test/ Roll Trim (35A2)	CB18(5A) LPH B Test/ P-Roll Trim (35A ⁴)
ID STATE POME	1	P.C. Location							
DS 41-4 11 314	9	Loed Power Dissipation							
4	2	Duty	Continuous						
	,	Associated Loads	1) Rell SAS Computer (20A3) INS 26VAC Ø Peference 2) IMM (OGA1) 39 CSIC (G7A1) 26VAC ØA	v = 115VAC s) Radder Trim Actuator (20A17) I = 5A 115VAC ØA	V = 1159AC Radder Trim \$B Actuator (20A17) 1 = 5A 1159AC \$B	v = 115VAC Rudder Trim Actuator (20A17) 1 = 5A 115VAC \$C	V = 28VDC a) Radder Trim Actuator (20A17) 28VDC Clutch/ Brake Solenoid	a) Fitch and Mach Trim Actuator (20A15) 115VAC DA	V = 115VAC Pitch and Mach Trim ØB Actuator (20A15) I = 5A 115VAC ØB
	9	Reting V & I	V = 26VAC	v = 115vac øa I = 5a	V = 115VAC ØB I = 5A	v = 115vac oc I = 5A	v = 28VDC	V - 115 VAC OA I - 5A	V - 115VAC ØB I - 5A
	N	Type of Power Controller	AC - 1 Pole	AC - 1 Pole	AC - 1 Fole	AC - 1 Pole	DC - 1 Pole	AC - 1 Pole	AC - 1 Fole
	7	Table Item #	710	920	290	990	\$	8	160

PIGURE 1 SHEET 1,	77	Associated Boolean Equations	2 60	993	· 16	660	8	101
MOUNE	ı ı	Reference Dresdage Bo	INSPD FIG. 1 Zone 3A, 67A 69B	INSPD PIG. 1 Zone 28, 85C 86C, 87C, 86C 898	INSFD FIG. 1 Zone 514,860	IMSP Hg. 1 Zone 28, 69C	IWSFD Prg. 1 Zone 2A, 69C	INSPD FIG. 1 Zone 2B, 37B 39B, 21C, ¹ .1B
	10	Identifier Code	споде	сы.093	-бочэ	DIR. 099	DHL 100	GH. 101
	6	Operational	пфп	21011	11413	Okdia Okdi2 Okdi3	O4015 O6014 O6015	oldis Ocusé
TABLE II F-14 SOLID STATE POWER CONTROLLERS AND DRIVERS	8	Conventional Devices Being Replaced	CB8 (5A) L PH C Test/ P-Roll Trim (35A ¹)	CBT (5A) SPD BK/ P Roll Trim Enable (36A3)	CB7 (5A) SPD BK/P Roll Trim Enable (36A3)	CBMO (7.5A) Emerg. Fit hyd. Auto (36A1) Comb hyd Press Switch (63S1)	Fit Myd Press Switch (SSZ) (SSZ) (CSG) (TM) Derrg Fit Hyd Auto (36A1)	CBG (3A) Nose Wheel Steer/ARCS (3AA) Anto Pilot Bagage - Nosewheel steering Pushbutton Switch (20MA/2)
ID STATE POWER	7	P.C. Location						
ABLE II F-14 SOL	•	Load Power Dissipation						
A	•	Duty						
	•	Associated Loads	Pitch and Mach Trim Actuator (20A15) 115VAC #C	Pitch and Mach Trim Actuator (20415) Clutch/Solenoid 28VDC (31-4)	Pitch and Mach Trim Actuator (20A15) Clutch/Brake Sole- noid 27VDC (31-7)	a) External Elec (6x66/3) Unacrete (b) Pitch Computer Di acrete c) Yaw Computer Diacrete Diacrete Diacrete Diacrete	a) Pitch Comp. Discrete b) Yaw Comp. Discrete c) Roll Comp. Discrete	a) Pitch Comp (20A2) Discrete b) Roll Comp (20A3) Discrete
		Peting V & I	V = 115 VAC (PC I = 5A	V = 26VDC I = 5A	v = 28VDC I = 5A	Acres = 28VDC Low = Open	Normal = 28VDC Low = Open	Engage= 28 VIC Disengage≈ Open
	~	Type of Power Controller	AC - 1 Pole	DC - 1 Pole	DC - 1 Pole	Comb, thd Press-formal (Solid State Distore	Fit hyd Fres Normal (Solid Btate Discrete Driver)	Autopliot Breference Eugage (Solid State Discrete Driver)
	-	Table Ites	8	669	ŧ	*	100	101

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21	Associated Boolean Equations	300	301	98	303	ž	305	906
1	Reference Drewings	IWSFD Fig. 1 Zone 21C, 69B 4C	INSPD FIG. 1 Zone 41C, 69B 4C	IWSFD FIG. 1 Zone 4C, 72C 21B	IMSPD F18.1 Zone 4C, 73C 77A, 83C, 21 41B, 38A	1WSFD F1g. 1 Zone 21C, 41B 83C, 38A	INSPD FIG. 1 Zone 4B, 87B, 87C, 86C, 85C, 3A, 41C	1MSPD F18, 1 Zone 48, 878 87c, 86c, 85c, 34, 410
or	Identifier Code	UCL 300	UCL301	GEL302	CCT 303	TML 304	CFL 305	CH. 306
6	Operational Address	01923	42050	офр17	O6D18	94019	11011	11405
	Conventional Devices Being Replaced	CB37 (5A) ROLL CMPTR DC (36A2)	CB38 (5A) Pitch CMFTR DC (36A2)	CB38 (5A)Pitch CMPTR DC (36A2) CB37 (5A) RO11 COMPTR DC (36A2)	CB 36 (54) Pitch OMPTR DC (3642) CB37 (54) Roll COMPTR DC (3662) Dlode "OR" Gate P/O Hight Glove Reley Box (772A1)	P/O KGO - Flape Down Hight Glove Relay Box (HTA) (HTA) CHTA) CHTA) CHTA) CHTA)	P/O K54 - Right Wing Trim P/O K55 - Left Wing Trim CBS - (5A) LPH A Test/ Roll Trim (35A2)	P/O K54 - Right Wing Trim (1. Glove Relay Box 773A) CB 18 (5A) L PH B Test/ P Roll Trim (35A4)
7	P.C. Location							
٥	Losd Power Dissipation							
^	Duty Cycle	100%	1000					
•	Associated Loads	Roll Computer (20A3) Power Supply)	Pitch Computer (20A2) (Power Supply)	a) Pitch Computer (20A2) b) Roll Computer (20A3) (Wing Sweep < 57° Signal)	a) Pitch Computer (20A2) b) 3011 Computer (20A3) (Raps 2 25° Down Signal)	(20A2) b) Roll Computer (20A2) c) Roll Computer (20A3) (DLC Engage Signal)	Roll Trim Actuator (20A18) 115VAC ØA Fixed Phase	Roll Trim Actuator (20Al8) 115VAC ØB
•	Rating V & I	V = 28VDC	v = 28vpc	V = 28VDC	V = 28VDC	V = 28VDC	V = 115	VAC ØB
N	Type of Power Controller	DC - 1 Pole	DC - 1 Pole	Enable Driver	Enels Driver	Enable Driver	AC - 1 Pole	AC - 1 Pole
-	Table Item #	300	301	86	303	ž	305	306
	3 4	Typer Rating Associated Loads Cycle Disatpation Location Being Replaced Address Code Drawings	Type of Ruting Associated Loads Cycle Dissipation Location Bring Replaced Address Code Dissipation Location Bring Replaced Address Code Drawings DC - 1 Pole V = 28 VDC Roll Computer (20A3) 1006 DE COGE DE CYCLE DE CYCLE DISSIPATED DE CYCLE DISSIPATED DE CYCLE DISSIPATED DISS	1	Type of Received Loads Duty Power	1	1	1

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FIGURE 1 SHEET 6	ส	Associated Boolean Equations	307	906	8	310	ж
1	a	Reference Drevings	IWSPD FIG. 1 Zone 4B, 87B, 87c, 86c, 85c, 34, 41c	INSFD FIG. 1 Zone 2A, 85C 86C, 87C, 89A	iwsp Fig. 1 Zone 4c, 70A 21B, 41C, 61B	INSPD FIG.1 Zone 41C, 83 69A, 70A, 4C 75C, 74C, 2C	IMSFD F1g. 1 Cone 21b, 63 69A, 70A, 4C 79B, 78B
	10	Identifier Code	си 307	CM. 306	uct. 309	UCL 310	UCL 311
	6	Operational	91011	11917	02050	06D21	Olezza
TABLE II F-14 SOLID STATE POWER CONTROLLERS AND DRIVERS	80	Conventional Devices Being Replaced	CBS (5A)LPH C Test/ P Roll Trim (35Ak) (L. Glove Helmy Box 773Al)	Diodes CROS/CROS (Left Glove Relsy Box 773A1) CB7 (5A) SFD BK P Roll Trim Enable (36A3)	CBI (SA) CBD RAII BENEMIS/Spoller Foa Ind (36A2) CBY (SA) RAII CHPTR DC (36A2) CBS (SA) FILCH CHPTR DC (36A2) DC (36A2) Ind (36A2) Ind (36A2) Ind (36A2) Ind (36A2)	F/O K29 - MLG Safety N F/O K77 - Gnd Holl Braking No. 2 (R. Glove Helay Box 773Al)	P/O KS6 - GND RO11 BURKING NO. 1 P/O KIZ - MLG Sefety K (R. Glove Relay Fox 772A1) T(2A1) T(2B1) T(3A2) T(3A2)
ID STATE POWE	7	P.C. Location					
NBLE II P-14 SO	9	Load Power Dissipation					
A	•	Duty Cycle					
	•	Associated Loads	Roll Trim Actuator (20Al8) 115VAC (C	Moll Trim Actuator (20Al8) Clutch/Brake Sole- noid 26 VDC	Roll, Pitch & Yav CMPR - Mater re- aet Signal	Pitch CMPTR (20A2) GMD Woll Braking Signel	Moll CMPTR (2003) GND Noll Breking Signel
	3	Reting V & I	V = 115VAG	V = 28VDC	V = 28VDC	v = 28VDC	V = 28VDC
	8	Type of Power Controller	AC - 1 Pole	DC - 1 Pole	Enable Signel	Enable Sig- nal	Enable Signal
	-	Table Ites #	307	ğ	8	310	TE

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PIGURE 1 SHEET 7	व	Associated Boolean Equations	312	313	314	315	316	317
Ĭ.	п	Reference Drewings	TWSPD FIG. 1 Zone 21C, R3 R2, B1A, 76A 7kA, 79B, 78B, 69A, 70A, LC	IWSPD F18. 1 Zone 418, 75 76, 82, 694, 704, 74c, 4c, 2c	1WSFD F1g. 1 Zone: 62C, 79B, 78B, 4C	IWSFD FIG. 1 Zone 82C, 75A 74A, 4C	IWSPD F18. 1 Zone R2C, 25A, 74A, 4C	INSTD FIG. 1 Zone SEC. 79B, 78B, 4C
	10	Identifier Code	UCI. 312	UCI. 313	DLL 314	DLL 315	91E TIO	DIA. 317
	6	Operational Address	041722	06022	cospoi	острос	02103	OZPOA
TABLE II F-14 SOLID STATE POWER CONTROLLERS AND DRIVERS	8	Conventional Devices Being Replaced	P/O - K200 Spotlers Test. P/O - K 96 Ground Roll Brreking No. 1 (R. Glove Relay Box T/221) CCB7 (5A) Roll CMFTR DC (36A2)	P/O - KEOD Spoilers Test. P/O - KTO Spoilers P/O - KTY Ground Roll Braking No. 2 (R. Glove Relay box T/7CA1) P(7CA1) P(7CA1) P(7CA2) P(7CA2) P(7CA2)	CBL (5) Gnd Roll Brak- ing/Spoiler Pos. Ind (36A2)	CB1 (5A) Gnd Roll Brak- ing/Spoiler Fos, ind (36A2)	CBI (5A) Gnd Roll Braking/Spoiler Pos. Ind (36A2)	CBI (SA) and Roll Brak- ing Spoller Fos ind (36A2)
ID STATE PORE	7	P.C. Location						
NE 11 P-14 801	9	Load Power Dissipation						
A	2	Duty Cycle						
	,	Associated Loads	holl Computer (2043) - Inboard Spoilers - < 18° Signal	Pitch Computer (2002) - Inboard Spoilers - < 18° Signal	Control Surface Position Indicator (64M1) (Right Inboard Spollers-UP)	Control Surface Position Indicator (64M) (Left In- board Spollers - UP)	Control Surface Position Indicator (64M) (Left In- board Spoilers - Droop)	Control Surface Position Indicator (GAM) (Hight In- board Spollers - Broop)
		Peting V & I	V = 28VDC	V = 28VPC	v = 28VDC	V = 28VDC	V = 28 VDG	V = 28VDC
	a	Type of Power Controller	Enable Signal	Enable Signal	Flag Driver	Flag Driver	Flag Driver	Flag Driver
	-	Teble Ites	315	æ	317	315	316	317

PIGURE - SHEET	21	Associated Boolean Equations	318	319	350	t&
1	п	Reference Drevinge	IWSFD FIG. 1 Zone F2C, 76B 75B, LC	INSPD FIG. 1 Zone G2C, 76B 75B, 4C	INSPD FIG. 1 Zone B2C, 76C 75C, 4C	Justo Fig. 1 Zone Rec, Tel 7'95, hc
	10	Identifier Code	ргдзге	DLL319	DDI.320	1351g
	6	Operational Address	Q2DO5	90020	02007	90500
TABLE II F. 14 SOLLD STATE PAREN CONTROLLERS AND DRIVERS	80	Conventional Devices Being Replaced	CBI (5A) Gnd Roll Brek- ing/Spoller Fos. Ind (36A2)	CB1 (5A) Gnd Roll Brek- ing/Spoller Fos. Ind (36A2)	CB1 (5A) Gnd Holl Brek- ing/Spoiler Fos, Ind (36A2)	cel (sA) and feat brek- ing Spatier Fas. Ind (36A2)
ID STATE HARE	7	P.C. Location				
BLE 11 F-14 50	9	Load Power Dissipation				
4	5	Duty				
	,	Associated Loads	Control Surface Fos- ition Indicator (GAM) (Left Outboard Spollers - UP	Control Surface Fus- ition Indicator (GMM) (Left Outboard Spoilers - Droop	Control Surface Fos- ition Indicator (GAM) (Hight Outboard Spoilers - UP	Control Surface Fos- 1tion Indicator (GMD) Right Outcomd Spoilers - Droop)
	3	Rating V & I	V = 28VDC	V = 28VDC	V=28VDC	V - 28VIC
	2	Type of Power Controller	Flag Driver	Flag Driver	Flag Driver	fisg briver
	-	Table Item #	318	319	350	, ਫ਼

4	_		9		_						2		_			2
YIGURE 1 SHEET 1	90	Equation Description & Motes	Mach Trim AC . 115 VAC &C Essential #2 bus Energized	Rudder Authority Control Actuator Fixed &C and Roll Authority Control Actuator Fixed &C = 115 VAC &C Essential #2 BIS Energized	Pitch Computer 1159AC GA Essential #2 BUS Energized	Pitch Computer 115 VAC &A Auto Pitch Drive Trim = 115 VAC &A Essential #2 BIS Energized	Yew SAS Computer "A" Fower Supply 115 VAC GA 115 VAC GA Essential #2 BUS energized	Yew SAS Computer "M" Power Supply 115 VAC 64 115 VAC 64 Essential #2 BUS Energized	Yew SAS Computer "B" Fower Supply 115 VAC GA = 115 VAC GA Essential A2 BUS Energized	Roll Computer 115VAC ØA = 115 VAC ØA Essential #2 BUS Energized	#1 Left, #2 Left, #1 Hight, #2 Hight; Spoiler Actuator Solenoid Operated Mellef Valve is energized if the ving aveep is less than G2°.	#3 Left, #4 Left, #3 Might, #4 Might: Spoiler Actua- tor Solenoid operated relief valve is energized if the wing sweep is less than \$20.	Roll Computer Mach Trim 28 VDC - 28 VDC Easentiel #2 BUS Energized	Yew SAS Computer "A" Power Supply . 28 VDC APCS BIS Energized	Yew SAS Computer "B" Power Supply . 28 VDC APCS BUS Energized	Yew Computer Roll Authority 28 VDC and Audder Authority 28 VDC - 28 VDC Essential #2 BUS Diergized
SA	7	Reference Drewings	IWSFD Fig. 1	IMSED Fig. 1 Zone 2A, 67A	INSFD Fig. 1 Zone 41C	INSPD FIG. 1 Zone kilc	IWSFD FIR. 1 Zone GIC, 2B	IWSFD Fig. 1 Zone 61C, 2B	INSPD FIG. 1 Zone GIC, 2B	INSFD Fig. 1 Zone 21C	IMSFD F18. 1 Zone 73A, 75A, 77B, 79B	1MSFD F18. 1 Zone 74C, 75C 74B, 75B	IWSFD Fig. 1 Zone 21C, 3A	IWSFD Fig. 1 Zone 61C, 3B	Zone 61C, 3C	INSPD FIG. 1
TABLE III P-14 SOSTEL BOGLEAN PRUATIONS	9	Special Considerations	Ess. No. 2 Bus	Flight Critical Ess. No. 2 Bus	Ess. No. 2 Bus	Ess. No. 2 Bus	Ess. No. 2 Bus	Flight Critical Ess. No. 2 Bus		Ess. No. 2 Bus	Ess. No. 2 Bus	B. Main Bus	Ess. No. Bus	AFCS Bus	APCS Bus	Flight Critical Ess. No. 2 Bus
TABLE III P-14	٥	Bus/Load Management Priority	8	N.	Cu-	Q.	OJ.	a	OJ.	N	N		c.	8	N	N
	4	Solid State Controller List Cross Reference	100	90	903	***	500	98	200	9000	68	010	110	210	013	100
		Transducer List Cross Reference	¥	\$	\$	¥	ş	¥	¥	ž	100	100	ž	ž	¥	ś
	8	Boolean Equation	CFLOOL	CPLOOR	UCLGO3	UCLOOK	90000	900120	UCLOO7	900130	CKL009 = CKS001	CKLOLO - CKSOOL	остоти	UCLO12	UCLO13	UCLO14
	-	Table Item #	100	8	6003	18	900	900	100	900	8	010	110	210	013	410

1													
FIGURE 1 SHEET 2	80	Equation Description & Notes	Yew SAS Computer "M" Fower Supply if the 28 VDC AFCS BUS is energized	Roll, Yaw & Pitch SAS Computer 28 VDC WOR Signal = LMLG Wright on Wheels and B. MLG Weight on Wheels	Roll SAS Computer INS 26 VAC #A Reference and IMU 26 VAC #A and CSDC 26 VAC #A are on if the 26VAC #A Navigation BNS is Energized	Rudder Trim Actustor 115 VAC ØA - Rudder Trim Switch Left or Right	Radder Trim Actuator 115 VAC #8 = Radder Trim Switch Left	Radder Trim Actuator 115 VAC &C. m Radder Trim Switch Right	Rudder Trim Actuator 28 VDC Clutch/Brake Solenoid - Rudder Trim Switch Left or Hight	 Note 1 These controllers must be actuated & deactivated "simultaneously" (similar to multi-pole relay function) 	** Note 2 These Controllers must be wire or'ed at outputs (equivalent to SEPTCO relay function)		
2	7	Reference	IWSFD F1g. 1 Zone 61C	INSFD F16. 1 Zone 21C, 41B	IWSFD Fig. 1 Cone 21A	IWSPD Pig. 1 Zone 3B, 85A, 93B	IWSFD FIG. 1 Zone 3B, 85A, 93B	IWSFD FNg. 1 Zone 3A, 85B, 93B	TWSFD FIG. 1 Zone 4B, 85B, 93B				
TABLE III F-14 SOSTEL BOCLEAN BOUATIONS	9	Special Considerations	APCS Bus	APCS Bus	NAV. Bus	• See Note 1 Ess. No. 2 Bus	• See Note 1 •• See Note 2 Ess. No. 2 Bus	* See Note 1 ** See Note 2 Ess. No. 2 Bus	* See Note 1 Ess. No. 2 Bus				
TABLE III F-14 S	\$	Bus/Load Management Priority	cu.	CI.	a	8	a	N	a				
	4	Solid State Controller List Cross Reference	015	910	710	980	780	990	690				
	8	Transducer List Cross Reference	¥	90 50	ž	250	130	28	061				
	8	Booleen Equation	vcto15	UCLO16 = @3002 · @3102	710134	CJIO86 - CJSORI + CJSOR2	cJ1087 * cJ8021	CJ1088 = CJS022	CJ1089 - CJS021 +				

B-18

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	Equation Description & Notes	Pitch and Mach Trim Actuator 115 VAC 64 - Attitude Hold Selected NOT <u>and</u> Trim Switch down <u>or</u> up	Pitch and Mach Trim Actuator 115 VAC ØB * Attitude Hold Selected NOT <u>and</u> Trim Switch up	Pitch and Mach Trim Actuator 115 VAC &C = Attitude Hold Selected NOT and Trim Switch Down	Pitch and Mech Trim Actuator Clutch/Brake Solenoid 28VDC - Attitude Hold Selected NOT and Trim Switch down or Up	Pitch and Mach Trim Actuator Clutch/Brake Solenoia 26VDC = Atiltude Hold Selected	Comb Hyd Fress Normal 289DC Discrete to the a External Electrical Par Contactor (6646K3) b) Hitch Computer (2042) c) Yew Computer (2043) IS = Comb. Hyd Press. Switch Normal (>2100 FSI) IS = Comb. Hyd Press. Switch Normal (>2100 FSI) whole 3 These controllers must be actuated and Desciused "simultaneously" (similar to Multi-Fole Melay Function) (similar to Multi-Fole Melay Punction) at outputs (equivalent to SFFTCO relay Functions Function)
7	Reference Drawings	1WSFD F1g. 1 Zone 93B, 87, 86c, 85c, 3B	INSFD F16. 1 Zone 93B, 87, 86c, 85c, 3A	IWSFD F16. 1 Zone 93B, 87 86c, 85c, 3A	IWSPD FIg. 1 Zone 93B, 87, 86c, 85c, 2A	IWSFD FIG. 1 Zone 51A, 86C	Zone ZA, GyC
9	Special Considerations	• See Note 3 Ess. No. 2 Bus	* See Note 3	• See Note 3	* See Note 3	Ess. No. 2 Bus	Solid State Dis- crete Diver Rather than SSFC Eas. No. 2 Bus
2	Bus/Load Management Priority	5	æ	N	CV .	٥.	1
	Solid State Controller List Cross Reference	9	160	8¢	093	160	66
8	Transducer List Cross Reference	88 86 88 86	883	5 75.	ଧୃକୃତ୍ଧ	665	160
Q.	Boolean Equation	CF1.090 = CF5.025 (CF5.024 + CF5.023)	CPLO91 = CPSQE5 . CPSQE3	CHOOK = CHSORS .	CFL093 = CFSQ25 · (CFSQ24 · CFSQ23	CFLO94 = CFS025	ри.099 - Diso33
-	Table Item #	060	160	%	993	*	8
	3 4 5 6 7	2 3 k 5 5 6 7 Transducer Controller Mas/Load Special Reference Reference Priority Considerations Drawings	Solid State Solid State Solid State Solid State Solid State Transducer List Cross Institute List Cross Institute Reference Reference Priority Considerations Drawings Priority Priority Drawings Priority Drawings Priority Drawings Drawings Priority Drawings Drawings Priority Drawings Drawings	Solid State Solid State Solid State Solid State Considerations Considerations Crisque + Cris	Solid State Solid State Solid State Solid State Solid State List Cross List Cross List Cross List Cross List Cross Reference Priority Considerations Drawings Drawings Drawings CFROCS CCFROCS CCFROCS	Paragraphic Principle Priority Prior	Transducer Solid State Bus/Load Special Britance Iliat Cross Iliat Cross

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PLOURE ! SHEET !,	30	Equation Description & Notes	Fit Myd Freas Normal 28VDC Discrete to the a) Fitch Comp. (20A2) b) Yew Comp. (20A3) c) Foll Comp. (20A3) IS = Fit Myd Press, Switch Mormal (>2100 ISI)	Autopilot Meference Engage 28VDC Discrete to the a Pitton Casp. (2002) b Noll Comp. (2003) IS = Autopilot reference engage switch - Engaged and L Mid Weight on Wheels NOT or R Mid Weight on Wheels NOT
221	7	He ference Drawings	19870 Pig. 1 Zone 2A, 690	IMSFD Fig. 1 Zone 2B, 37B 39B, 21C, 41B
TABLE III F-14 SOSTEL BOOLEAN EQUATIONS	9	Special Considerations	Solid State Dis- crete Driver Bather than SSFC Ess. No. 1 Bus	Solid State Dis- crete Driver Rather than SSF. Ess. No. 1 Bus
TABLE III F-14	\$	Bus/Load Management Priority	ı	ou .
	-	Solid State Controller List Cross Reference	100	व
	3	Transducer List Cross Reference	æ0	1000
	ū	Boolean Equation	жояна • онглоо	GISOR • GISOR
	7	Table Item	100	g

60	Rquetion Description & Notes	Roll Computer (20A3) Power Supply 28VDC = 28VDC APCS RNS Energized	Pitch Computer (20A2) Power Supply 28VDC = 28VDC APCS BNS Energized	Pitch Computer (20A2) and Roll Computer (20A3) - Ming Sweep - $<57^{\rm O}$	Pitch Computer (20A2) and Roll Computer (20A3) - Flaga 2290 Down = Left or Right Flaga 2 29 ^o down	Pitch Computer (20A2) and Moll Computer (20A3) - DLK Engage = DLC engage Chaff Dispense - on and left or right flaps 2 250 down	Roll Trim Actuator 115VAC 6A = (left or right trim) and Attitude Hold Selected NOT	Roll Trim Actuator 115VAC 48 = Right - Trim and Attitude Hold Selected NOT	Roll Trim Actuator 1159AC &C = Left Trim and Attitude Hold Selected NOT	Roll Trim Actuator - Clutch/Brake Solenois 28VDC - (Left or Night Trim) and Attitude Hold Selected NOT	
7	Reference Drawings	IWSFD FIG. 1 Zone 21C, 4C, 69B	IWSFD FIG. 1 Zone 41C, 4C 69B	1WSFD F1g. 1 Zone 4C, 72C 218, 41C	IMSPD FIR. 1 Zone 4c, 73C 77A, 83C, 21C 4.1B, 38A	Zone 21C, 41B 83C, 38A	IMSPD FIR. 1 Zone 89A, 87 86c, 85c, 41c, 19c, 48, 3A	Zone 89A, 87, 86c, 85c, 41c, 19c, 48, 3A	INSFD FIG. 1 Zone 89A, 87, 86C, 85C, 41C, 19C, 4B, 3A	INSFD Fig. 1 Zone 2A, 85C, 86C, 87C, 89A	
9	Special Considerations	APCS Bus	APCS Bus	Flight Critical Requires Two Sensors for GES216		AFCS Bus	Ess. No. 2 Bus	Ess. No. 2 Bus	Ess. No. 2 Bus	Ess. No. 2 Bus	
٠	Bus/Load Management Priority	٥.	a	CI.	N	C)	٥.	Ν	C)	8	
4	Solid State Controller List Cross Reference	300	301	36	303	30,	302	306	307	306	
3	Transducer List Cross Reference	N/A	n/A	216	217	217 218 219	025 220 221	221	025 220	220 220 221	
8	Boolean Equation	UCL300	UCL301	GEL302 = GE3216	CG1503 = CG217	FML304 = TME219 • (CGS217 + CGS218)	CFL305 = (CFS20 + CFS21) • CFSQ25	CF1306 = CF2221 •CF5025	CF1307 = CFS220 • CF5025	CH 306 = CFS220 + CFS221) • CFS025	
-	Table Item #	86	301	3 g	303	ž	302	305	307	306	
	3 4 5 6 7	2 3 kh 5 6 7 Solid State Controller Controller List Cross Last Cross Reference Reference Reference Priority Considerations Drawings	Solid State Solid State Solid State Controller Das/Load Controller List Cross List Cross Reference Priority Considerations Priority Drawings Drawing	Solid State Solid State Controller Controller Consideration Reference Consideration Reference Re	Solid State Bus/Load Bus/Load Bus/Load Bus/Load Bus/Load Bus/Load Bus/Load Bus/Load Brerence Briority Considerations Brevance Brevance Briority Considerations Brevance Brevance Briority Considerations Brevance Brevance Briority Considerations Brevance Brevance Brevance Briority Considerations Brevance Brevance	Solid State Bus/Load Bus/Load Bus/Load Bus/Load Bus/Load Bus/Load Bus/Load Bus/Load Bretrence Bretrence Bretrence Brit Crols Bus/List Considerations Bravings Dravings British Bretrence Bretrence Bretrence Brit Crols Bravings British Bretrence Bretrence Bretrence British Bretrence Bretrence Bretrence Bretrence Bretrence Bretrence Bravings Bravings Bretrence Bretrence Bretrence Bravings Bretrence Bret	Solid State Bus/Load Bus/Load Bus/Load Bus/Load Bus/Load Bus/Load Bus/Load Bus/Load Brerence Brerence List Cross Brerence Brerence Brerence Britations Brerence Brerence Brerence Brerence Brerence Brotity Considerations Drawlaga Drawlaga	Solid State Bus/Load Bus/Load Bus/Load Bus/Load Bus/Load Bus/Load Bus/Load Breference List Cross List Cross List Cross Bus/Load Breference List Cross Bus/Load Breference Brefere	Extraction Solid State Bas/Load Special Baterance Controller Bas/Load Bpecial Baterance List Cross L	Solid Size Bus/Local Bus	Transducer

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PIGURE 1 SHEET C	•	Equation Description & Motes	Pitch, Yaw and Roll Compter - Master Heaet - Master Heset - Depressed	A = QKEROI • QKEROO • CENDOR • CENDOR • (CENDER) + (CEN	A = QKS201 • QKS200 • GES002 • GES102 • (CES22) + GKS 194) B = CGS227 Ground Roll Braking Signal to the Roll Captr • Right and Left Brottle - Idle and Left and Right MCG-Weight on Whe sale and Actin Stal/Spoiler Brake Sattch in the - Spoiler Be or Both Foattion) or If the Bove terms are true while the Mr. 2 right and Mo. 1 Right Spoilers are > 0° the above terms any subsequently become false.	Noil Computer - Indom't Spoiler less than 180 Signal - (Left Sitte Mormal and No. 2 Left Spoiler - (190) or (Might Site Mormal and No. 2 Hight Spoiler - < 18 J]or [(Master Test - Stick SW not or Master Test - Ext. SW not or Master Test - Ext. Sw depressed) and the conditions for equation 31 are true
2	7	Reference Drawings	IWSFD FIG. 1 Zone 4C, 70A, 21B, 41C, 61B	IWSFD F.g. 1 Zone 41C, 83, 69A, 70A, 4C 75c, 74c, 2c		inspd Pig. 1 Re- BlA, 76A, 77A, 79B, 76B, 69A, 70A, 4C
TABLE III P-14 SOSTEL BOOLEAN BOUNTIONS	9	Special Considerations	AFCS Bus	a) Requires Latching IMSPD Fig. 1 Function b) Flight Critical Foremeter, Requires Fyc. Phc. 2c F	a) Requires Latch- ing Function b) Flight Critical Parameter, re- quires Separte Tranducers and Equation Solu- tions relative to Equation 30 c) Ess. No. 2 Bus	Flight Critical - Requires Separate Transducers and Equation Solutions Helative to Equa- tion 313 APCS Bus
TABLE III F-14	2	Bus/Load Management Priority	æ	OJ.	а	α .
	4	Solid State Controller List Cross Reference	309	900	ış.	312
	67	Transducer List Cross Reference	222	000 1000 1000 200 200 224 224 225	000 100 100 200 201 223 223	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	2	Boolean Equation	UCL309 = UCL222	UCI310 = $A \leftrightarrow A(E) \oplus B(E) \oplus \overline{A}(E \leftrightarrow E)$	UCL 311 = A + $A(t) \circ B(t) \circ \overline{A}(t+)$	001312 = 002229 002231 002221 002223 002233 002233 002233 002233 002233 0023
	-	Table Item #	309	310	ą	æ

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FIGURE 1 SHEET 7	60	Equation Description & Notes	Pitch Computer - Outboard Spoiler less than 189 Signal = {(Left Stick/Mormal and No. 3 and No. 4 Left Spiters - < 189) or (Engit Stick/Mormal and No. 3 and No. 4 Right Spice/Mormal and No. 3 and No. 4 Right Spoilers - < 189) or (Mester Test - Stick SW not or Mester Test - not depressed) and the Conditions for Equation 310 are true]	Right Inhosent Position Indicator Flag-Up = No. 2 or No. 1 Right Spoilers - > 00	Left Inboard Foattion Indicator Flag-Up = No. 1 or No. 2 Left Inboard Spoilers -> 00	Left Inboard Position Indicator Fise-Droop • No. 1 and No. 2 Left Inboard Spoilers - (-4.5º)	Might Inhoend Position Indicator Plag-Droop = No. 1 and No. 2 Right Inhoend Spoilers - (-4.59)	Left Outboard Position Indicator Flag-Up = No. 3 or No. 4 Left Outboard Spoilers - > 00	Left Outboard Position Indicator Flag-broop = No. 3 and No. 4 Left Outboard Spoilers - (-4,50)
21	7	Reference Drawings	1NSPD F1g. 1 Zone 41B, 75, 76, 62, 694, 708, 74c, 4c, 2c	IMSFD F1g. 1 Zone B2C, 79B, 78B, 4C	INSPD FIR. 1 Zone B2C, 75A, 74A, 4C	IMSPD Fig. 1 Zone B2C, 75A, 74A, 4C	1MSFD F1g. 1 Zone 82C, 79B, 78B, 4C	IMSFD Fig. 1 Zone 82C, 76B 75B, 4C	198FD Fig. 1 2one EEC, 76B 75B, 4C
TABLE III P-14 SOSTEL BOCLEAN EQUATIONS	9	Special Considerations	Fight Critical Requires Separate Transducers and Equation Solution Relative to Equation 312. Arcs Bus	Ess. No. 2 Bus	Ess. No. 2 Bus	Ess. No. 2 Bus	Ess. No. 2 Bus	Ess. No. 2 Bus	Ess. No. 2 Bus
TABLE 111 P-14 S	•	Bus/Load Management Priority	O.	cu .	a	Q.	2	a	a
	,	Solid State Controller List Cross Reference	313	314	31.5	316	31.7	316	319
	8	Transducer List Cross Reference	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	226	239	24.1	24.3	24.5	249 248
	æ	Booleen Equation	• UCL313 • CCR235 • CCR235 • CCR23C • C	DLL314 = CGS226 +	DLL315 - CG2240 •	DLL316 • CG2242 • CG2241	DLL317 = CGSP43 •	DL1318 • CG245 •	DIL319 = СОБР47 • СОБР46
	-	Table Item	313	317	315	316	117	318	319

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PICUME 1 SHEET 8	60	Equation Description & Notes	Fight Outheard Position Indicator Flag-Up . No. 3 or No. 4 Fight Spoilers - $> 0^0$	Hight Outboard Position indicator Flag-Droop = Ho. 3 and Ho. 4 Hight Spoilers - (-4.50)
4	7	Reference Drawings	INSID FIR. 1 Zone Bec, 76C, 75C, 4C	1987 18. 1 775.
TABLE III F-14 SOSTEL BOOLEAN EQUATIONS	9	Special Considerations	Ess. No. 2 Bus	Ess. No. 2 Bus
TABLE III P-14 S	5	Bus/Load Numagement Priority	г	N
		Solid State Controller List Cross Reference	320	82
	3	Transducer List Cross Reference	224 225	24.9
	8	Boolean Equation	DL1320 = CG2225 + CG2224	DILIST = CGS 249
		Table Ites (0,0	%

13 Conditioning Technique	Resistor Divider Adapter	Resistor Divider Adapter	Solid State	Solid State	Resistor Divider Adapter	Solid State
12 ssociated Boolean Equation	2 735 2 517 2 518 3 546	55 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	2063 217 218	£ 88	£ 25.00	25 See
					888	88
11 Reference Drawings	INSPD FIG. 2 2 Zone 1A	IWSFD Fig. 2 Zone 2A	IWSFD F1g. 2 Zone 2A	IWSFD FIG. 2 Zone 38°	INSFD Fig. 2 Zone 20	Lused Fig. 2 095
10 Operational Address	204 50	03P03	04PO1	06P19	90410	06720
9 Conventional Switches Being Replaced or Deleted	N/A	N/A	Ground Cooling Presure Interlock Switch (5582)	thorizontel Teil Authority Stop Switch (5031)	Wing Sweep Handle Position Switch	Morizontal Tail Restricted Authority Bwitch (5032)
8 Associated Loads	KZ AFK76/ FALCS CALC INTLK (Art CKPT Felsy Box 793A1)	KE APK76/ RAICS K3 LAICS/ CSDC INTLK (AFF CKPT Relay Box 793A1)	KE APK76/ RAICS K3 LAICS/ CSDC INTLK (Art CKPT Relay Box 793A1)			
7 Present Signal Characteristics	Open or Switched 28VDC	Open or Skitched 28VDC	Open or switched 28 VDC	Open = 28VDC Open = No Volt- age	Raised 2.5 Inches = 28VDC Lowered = Open	Restricted = 28 No. Unrestricted = Open
6 Trensducer Type	N/A	N/A	Air Pressure Switch Pressure Hi/Lo	Limit Switch	Limit Switch	Limit Switch
9 Point of Origin	Fort FS 360	Fort FS 360	Starboard FS410	STA735 WL164	Pilots Left Side Console FS225	PS/35 W1.64
Signal Source Box Identification	AC Power Contactor Assy (66A6K2)	AC Pur Contactor Assy (CGACKI)	Grand Cooling Fressure Interlock Switch (55%)	Horizontal Tall Authority Stop Switch (5081)	Throttle Quadrant (711A1)	Horizontal Tail Restricted Author- ity Switch (5082)
3 Identifier Code	XASO03	xxsoot	HMS 0005	CFSQ26	CKSOP7	ствоев
2 Signal Name/Punction	Right Mein AC Pur-on-Line	Left Nein AC Pyr-on-Line	Ground Cooling Pressure Inter- lock Switch - High	Horizontal Tail Authority Switch - Open	Wing Sweep Handle Position Switch - Raised 2.5 Inches	Horizontal Tail Restric- ted
Table Ita	003	ğ	\$6	980	120	980
	2 3 4 5 6 7 8 8 Conventional Identification Origin Type Characteristics Loads Replaced or Deleted Address Drawings Required Replaced or Deleted Address Drawings Required Replaced or Deleted Address Drawings Required Replaced or Deleted Address Drawings Requestion	Hight Main AC AMSO03 AC Power Contactor Port Contactor Amsociated Rapid Conventional Code Ray (6666R2) F3 560 Ray (6666R2) F3	Signal Code Bax Identifier Code Bax Identification Origin Type Characteristics Code Sattohea Being Sattohea Being Being Sattohea Being Being Sattohea Being Sattohea Being	Signal Good Signal Good Signal Good Survey Signal Good Survey Signal Good Survey Signal Good Survey Surv		Signate Signat Surface Signat Surf

FIGURE 2 SHEET 2	13 Conditioning Technique	Solid State	Resistor Divider Adspter	Solid State	Resistor Divider Adapter
IGURE 2	Associated Boolean Equation	998 943	£8		
-	4 . 2	995	995	117	en e
	11 Reference Drawings	IWSPD F1g.2 095 Zone 38B 097	IWSFD FN.8.2 095 Zone 208 097	IWSFD Fig.2	Lusyd Fig. 2 118
	10 Operational Address	06P21	отьот	03PO4	05F02
	9 Conventional Switches Being Replaced or Deleted	Aft Stick Authority Switch (5085)	Wing Sweep Handle Position Switch		3
TRANSDUCERS	8 Associated Loads			K2 Wing Sweep Relay in Sys Test- Sys Pur Panel (790Al)	Item 045
TABLE I P-14 SCOTEL SIGNAL TRANSDUCERS	7 Present Signal Characteristics	Reduced Author- ity = 28VDC Pull Authority- Open	Limit Switch < 68° = 28VDC > 68° = Open	Switched 28VDC	Plap Interlock 2690C 2690C Plap Interlock Disengaged-Open
TABLE I	6 Transducer Type	Limit Switch		11 Position Rotary Switch	Solenoid Driver Con- tactors
	5 Point of Origin	STA735 WL164	Pilots Left Side Console FS225	NFO's Left Knee Fanel FS300	F5%0
	ly Signel Source Box Identification	Aft Stick Authority Switch (5083)	Throttle Quadrant (711A1)	Sys Test -Sys Pur Panel (790Al)	Wing Sweep/Piap and Siat Control Box (50A2)
	3 Identifier Code	CFS0269	сквозо	CKS071	CRSG72
	2 Signal Name/Punction	Aft Stick Authority Switch-Reduced Authority	Wing Sweep Handle Posi- tion Switch - < 680	Wing Sweep (Test Selector Position)	Flap Interlock
	Table Ites	8	030	αlo	072

SHEET 3	13 Conditioning Technique	Solid State	Solid State	Solid State	Solid State	S011d State
FIGURE 2	12 Associated Boolean Equation	100	10%	108	105	9 5
	11 Reference Drawings	IWSFD F1g.2 Zone 35C	IWSFD FIG. 2 Zone 34A	IWSFD F1g.2 Zone 33A	IWSPD FIG.2 Zone 29A, 39A	Lused Fig.2 Zone 37A, 31A
	10 Operational Address	05P03	07P15	90410	40450	अफ
	9 Conventional Switches Being Replaced or Deleted	Left Aux Flop He- tract Switch (51817)	Right Aux Flep Re- tract Switch (51818)	Flap 60 Switch (51819)	a) K86 Flap/ Left Slat Slat Lockout Asymetry Switch Slat Lockout Asymetry Switch Glove Relay Bax 7734) b) Disable Flap-Slat Flap-Slat Flap-Slat Flap-Slat Valve 5111)	Right Slat Asymmetry Switch (5138)
TRANSDUCERS	8 Associated Loads	Aux Flep Solenoid K68 (Left Glove Heley Box 773A1)	Same as Above (034)	Same as Above (034)	a) k86 Flap/ Slat Lockout. Belay (Left Glove Relay Box 773A1) b) Disable Prive (28000) (Flap and Slat Hydrau- lic Confrol.	
TABLE I P-14 SOSTEL SIGNAL TRANSDUCERS	7 Present Signal Characteristics	Retract = 28VDC Extend = Open	Retract = 28VDC Extend = Open	< 6° = 28VDC > 6° = Open	Closed = 28VIC Open = 28VIC Not	Closed = 28VDC Not Above (037)
TABLE I	6 Trensducer Type	Left Wing Limit Switch Art. Art. PSS70 BL160	Limit Switch	Limit Switch	Kotery Limit Switch	Switch
	5 Point of Origin	Left Wing Art FS570 BL160	Right Wing Art FS570 BL160	Pilots Cockpit FS225	Left Out- Rotary board Limit: Wing Slat Drive Shaft Left Wing Forward	Hight Out-Rotary board Limit i brive Prive Siaft Hight Hing For- ward FSS70 BL340
	ly Signal Source Box Identification	P/O Left Aux Flap Retract Switch (51817)	P/O Right Aux Flap Hetract Switch (51818)	Flap 6° Switch (51819)	Left Sist Asymmetry Switch (5137)	Hight Slat Asymmetry Switch (5138)
	3 Identifier Code	скзоз4	CKS035	сквозб	сквозл	скѕозв
	2 Signal Name/Punction	Left Aux Flap Retract Switch - RETRACT	Right Aux Flap Retract Switch - RETRACT	Flap Handle - < 60	Lert Slat Asymmetry Switch-Closed	Edght Slat Asymmetry Slymmetry Closed
	Table Item	450	035	936	037	038

SHEET "	13 Conditioning Technique	Solid State	Solid State	Solid State	Solid State	Soldl State
FIGURE 2 SHEET 14	Associated Boolean Equation	104	104	104	104	106
	11 Reference Drawings	INSFD FIG.2 Zone 29B, LOA	IMSED FIG.2 Cone 38A, 31B	IWSFD F18.2 Zone 37B, 31B	IWSND FIG. 2 Zone 37B, 31B	INSED FIG.2 Zone 40A, 29B
	10 Operational Address	05P05	07P17	07Р18	оте19	06P22
	9 Conventional Switches Being Replaced or Deleted	Left Outboard Asymmetry Switch (5185)	Right Flop Asymmetry Switch (5186)	Right Flop Overtravel Up Switch (51813)	Night Flap Overtravel Down Switch (51814)	Left Risp Overtravel Up Switch (51815)
TRANSDUCERS	8 Associated Loads				the state of the s	
TABLE I F-14 SOSTEL SIGNAL TRANSDUCERS	Tresent Signal Characteristics	Closed = 28VDC Same as Open = 28VDC Not Above (037)	Closed = 28VDC Not Above (037)	Closed = 28VDC Not Above (037)	Closed = 28VDC Same as Open = 28VDC Not Above (037)	CLosed = 28VDC Not Above (037)
TABLE I P	6 Transducer Type	Kotery Limit Switch	Kotery Limit Switch	Limit Switch	Limit Switch	Left Wing Limit Switch Mannever Piap Atustor #1200
	5 Point of Origin	Left Outboerd Wing Flap Drive Shaft Left Wing Aft FS570	Right Outboard Wing Flap Drive Shaft FS625 BL320	Right Wing Maneuver Flap Act- ustor #1 FS615 BL200	Hight Wing Maneuver Flap Actustor #1 FS615	Left Wing Manuever Flap Actuator #1 F8615 FI200
	l, Signal Source Box Identification	left Flop Asymmetry Switch (5185)	Right Flap Asymmetry Switch (5136)	Ment Plap Overtravel Up Switch (51813)	Hight Flap Over- travel Down Switch (51814)	Left Rap Over- travel Up Suitch (11285)
	3 Identifier Code	скво39	CKSO40	CKSO4.1	CKSO42	скво4.3
	2 Signal Name/Function	Left Flap Asymmetry Switch - Closed	Fight Flap Asymmetry Switch - Closed	Right Flap Overtravel Up Switch - Closed	Hight Flap Overtravel Down Switch - Closed	Left Flap Overtravel Up Switch - Closed
	Table Ita	660	9	19	24.2	49

SHEET 5	13 Conditioning Technique	Solid State	Solid State	Resistor Divider Adspter	Nealstor Divider Adapter
PIGUNE 2 SHEET 5	12 Associated Boolean Equation	105	105	105	105
	11 Reference Drawings	IWSFD F18.2 Zone 40B, 29B	IWSFD FIG.2 Zone 24 B, 26A	IWSFD Fig.2 Zone 20A, B	Zone 26A
	10 Operational Address	06P23	05P6	01100	Daso.
	9 Conventional Switches Baing Replaced or Deleted	Left Flap Overtravel Down Switch (51816)	K25 Aux Flap Wing Sweep Switch Control (fert Glove Relay Box	Flap Handle Position Switch (P/O Throttle Quadrant 711A1)	4
TRANSDICERS	Associated Loads		K25 Aux Flap Control (Lert Glove Relay Box 773A1)	Some sa Above (045)	Above (04.5)
TABLE I F-14 SOSTEL SIGNAL TRANSDICERS	7 Present Signel Characteristics	Closed - 28VDC Not. Above (037)	Cem Driven 200 = 280DC Limit Switch > 200 = Open	> 50 = 26VDC < 50 = 0pen	Fig. Interlock Eugeged = 280DC Eugeged Not = Open
TABLE I	6 Transducer Type	Limit Switch	Com Driven Limit Switch	Handle Limit > 50 = 28VDC Switch < 50 = Open	Solemoid Driven Con- tacts
	Point of Origin	Left Wing Maneuver Flap Actuator #1 F8615 B1200	FS 540 W1.275	Pilots Left Side Console FS225	M1175
	ly Signal Source Box Identification	Left Flap Over- travel Down Switch (51816)	P/O Wing Sweep Switch (51A5	Flap Handle Fost- tion Switch (P/O Throttle Quadrant 711A1)	wing Sweep/Fiap and Stat Control Box (50/2)
	3 Identifier Code	CKSO44	CKSO4.5	CKSO46	
	2 Signal Name/Function	Left Flap Overtravel Down Switch - Closed	Wing Sweep Switch - 20°	Flap Handle -	Figured Engaged
	Table Item	44.0	9 4 5	946	740

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FIGURE SHEET	व	Associated Boolean Equations	910	610	08	ชี	28	883	ซึ่
1	n	Reference Dravings	IWSPD Fig. 2 Zone 17C	IWSFD FIG.2 Zone Al, A2, 90	IWSFD FIG. 2 Zone 17C	IWSFD FIG. 2 Zone 17C	INSED FIR. 2 Zone 17C	IWSFD Fig. 2 Zone 21C	IWSPD Fig. 2 Zore 8B
	10	Identifier Code	CGLØ18	610730	CKLO20	CKLOP1	CKI.082	CKI.023	#1.024
	6	Operational Address	92050	10000	75927	05028	62650	orgole	07405
TABLE AT 1-19 SOLID STATE POWER CONTROLLERS AND DRIVERS	80	Conventional Devices Being Replaced	CEET (5 AMP) R DC Test AMC Bit. (36A4)	CB5 (5 APP) CALC (39A6) (115 MC) (115 MC) (115 MC) (125 MP) Ground Per (2001) Re Intlk (28 VEC) (36A) (36A) (31 MC)S/CABC Intlk (Art Cockpit Relay Box (93A) (Art Cockpit Relay Box (93A) (39A)	CB15 (5A) 115 VAC ØC Glove Vane Contr (35A6)	CBI3 (3A) Wing Sweep Drive #1 (35A6)	CBI, (3A) Wing Sweep Drive #2 MANUV CONTR 35A6)	CE23 (3A) Wing Fos. Ind. AC (35A2)	CEGO (SA) Augle of Attack Ind. AC (35A2)
ID STATE POWE	1	P.C. Location							
DS 61-1 11 278	9	Loed Power Dissipation							
P	5	Duty	1001	100%	1001	100%	100%	1001	100\$
	-	Associated Loads	Wing Flap Glove Vane Controller Test 28VDC	V = 115VaC ADC 115 VAC VA VA I = 5 AVE	Wing Flap Glove Vane Controller (50A5) Flap 115 VAC ØC	V = 115VAC Wing Flap Glove VC Name Controller I = 3 AdF (5045) Ming Sweep #1 Per Supply 115 VAC #0	V = 115VAC Wing Flap Glove % Name Controller 1 = 3 AdV (5045) Hing Sweep #2 Pvr Supply 115 VAC #C	V = 115VAC Sweep Indicator ### (50AC) Pur Supply I = 3A #1 & #2	Augle of Attack Filter (45A5)
		Reting V & I	V = 28VDC I = 5 AMP	V = 115VAC MA I = 5 AMF	V = 115VAC CC QC I = 5 AMP F7	v = 115vAC v = 115vAC 1 = 3 AMF	V = 115VAC AC I = 3 AMP	v = 115VAC øB I = 3A	V = 115VAC V B I = 5A
	8	Type of Power Controller	DC - 1 Pole	AC - 1 Pole	AC - 1 Pole	AC - 1 Pole	AC - 1 Pole	AC - 1 Pole	AC - 1 Pole
	-	Table Item #	910	610	020	60	062	83	78

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TIONE DHEET	21	Associated Boolean Equations	ર્જુ	\$66	* .	66
100	ı	Reference Drewings	LWSPD PIG. 2 Zone 30B, 32A 1WSPD PIG. 1 2 Zone 957, 95C, 95B,	IWSPD FIR. 2 Zone 10, 28, 20, 30, 360, 370, 358, 208	Same as Above	Sance as Above
	07	Identifier Code	5-200 Caros-5	del.095	GEL096	rel.oy7
	6	Operational	20060 03401	næ5	92611	1147
TABLE AT 1-14 SOLID STATE PAREN CONTROLLERS AND DRIVERS	8	Conventional Devices Being Replaced	Fisp Ind. (3542)	CEC (7.5A) Wing Pos Ind. DC (36A2) KG2 MLG Sefety "Q" Left Glove Pelsy Box	KG4 Motor Retract Left Glove Relay Box	K63 Motor Extend Left. Glove Relay Rox Bortzontal Tail Author- Ity Stop Switch (5081)
IN STATE POR	1	P.C. Location				
DE 67-7 TT 378V	9	Load Power Dissipation				
4	\$	Duty				
	-	Associated Loads	V = 115VAC b) Wheels - Flaps ## Fostion indicator (FMG) I sp Fostion in- dicator b) Flap Fostion in- the flatton Transmitter (FMA) c) Control Surface Fostion indicator (GAG) d) Right Rader Fostion indicator (GAG) c) Left Rader Fostion Transmitter (GAG) f) Right Rorizontal Stabilizer Fostion Transmitter (GAG) f) Right Rorizontal Stabilizer Fostion Transmitter (GAG) g) Left Rorizontal Stabilizer Fostion Transmitter (GAG) Fostion Transmitter (GAG) g) Left Rorizontal Stabilizer Fostion Transmitter (GAG)	Aing Oversweep Actuator (50A7) 115 VAC #A	V = 115VAC Wing Oversweep \$\sqrt{\text{g}} \text{B} Actuator (50A7) \\ I = 5A 115VAC \$\sqrt{\text{g}} \text{B}	v - 1129AC Инg Ометвиеер фС Actuator (5047) : « SA 115VAC фВ
	•	Reting V & I	1 - SA	v = 115vac uA I = 5A	V = 115VAC ØB I = 5A	v - 115vac dc 1 - SA
	8	Type of Power Controller	AC - 1 Pole	AC - 1 Pole	AC - 1 Pole	AC - 1 Pole
	7	Table Item #	58	9,5	96	150

~		ed stions				
FIGURE 2 SHEET 3	12	Associated Boolean Equations	986	100	£ot	ğ
Ĭ.	п	Reference Drawings	Same as Above	IWSPD P1g. 2 Zones 1C, 24C, 26A, 33A, 34A, 35A, 35C	IWSFD FIG. 2 Zone 33A	IMSFD Fig.2 Zone 34A, 34B, 39B, 1B
	10	Identifier Code	GEL098	CKL108	скілоз	OKIJO
	6	Operational	11928	91611	04023	1149
TABLE II P-14 SOLID STATE POWER CONTROLLERS AND DRIVERS	20	Conventional Devices Being Replaced	Horizontal Tell Res- tricted Authority Switch (2022) Art Stick Authority Switch (5033) KIZ MiG Safety "K" Mirotite Gadrant (711A) Wing Sweep Hendle Position Switch < 68° and raised 2.5 Inches	KGE Aux Flep Solemoir Left Glove Relay Box (773Al) CB3 (5A) Aux Flep/Flep Contr (36A2)	N/A - Associated with Item 102 above	REG Flap/Slat Lockout (Lert Glove Relay Rox RES Aux Flap Control (Lert Glove Relay Box TT341) CHI (SA) Flap/Slat Contr Shut Off (36A3)
ID STATE POWE	7	P.C. Location				
ABLE II F-14 SO	9	Load Power Dissipation				
A	•	Duty Cycle				
	3	Associated Loads	Hing Oversweep Actuator (5047) Clutch/Brake Sole- noid 28VDC	20° Aux Flap/Ming Sweep Interlock Solemoid Wing Sweep/Flap and Sist Control Box 5082)	AC Power Contactor Assembly (66A6)	a) Metract Hight Aux Finey (2800c.) Solemoid (Right Auxiliary Fine Actuator 5146) b) Metract Left Aux Fine (2800c.) Sole- moid (Left Auxiliary Fine Actuator 5147) C) Disable Fine- Drive (2800c) (Fine and Sint Hy- Graulic Coderol Valve 5111)
	8	Rating V & I	V = 28VDC I = 7.5A	v = 28VDC	< 6°=28VDC > 6°=0pen	V = 28VDC
	8	Type of Power Controller	DC - 1 Fole	DC - 1 Pole	<pre>< 6º Discrete < 6º=28VDC (Solid State > 6º=0pen Discrete Driver)</pre>	DC - 1 Fole
	-	Table Ite (860	106	103	40.

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PLOURE 2 SHEET 4	ส	Associated Boolean Equations	\$01	. 18	111	118	611
Ĕ	п	Reference Drewings	INSPD FIG. 2 Zone 34A, 34B	INSFD FIG. 2 Zone 21B, 1C	Lone 398	INSFD F16.2 Zone 39B	IMSPD F18. 2 Zone 32A, 10
	10	Identifier Code	ck1.105	o <u>E</u> 106	K 0L117	ML118	61179
	6	Operational	11020	œb12	œp13	41020	œon 5
TABLE II F-14 SOLID STATE POHER CONTROLLERS AND DRIVERS		Conventional Devices Being Replaced	Same as Above Item 104	*Same CB2 as Item 095, 096, 097, 098	CB32 Gnd Test (36A4) KI9 MLG Safety A HGRB (772A1) S1 System Test & S1 System Per Phl P/O S2 (790A1)	Same as MJL117	CIG (3A) 28VDC Wheel Position Indicator (36A2)
ID STATE POWE	1	P.C. Location					
BE II F.14 801	9	Load Power Dissipation					
P	5	Duty		100%			3001
	•	Associated Loads	a) Extend Left Aux Flap (25VDC) Sole- noid (Left Auxiliary Flap Actuator 51A?) b) Extend Hight Aux Flap (25VDC) Sole-	noid (Hight Auxil- lary Flap Actuator 51A6) Sweep Indicator (50A6)	NO GO Test Lamp (Sys. Test - Sys Fwr Panel TydA)	GO Test Lemp (Sys. Test - Sys Pur Panel 790Al)	Wheels - Flaps (7841)
	3	Rating v & I	V = 28VDC	v = 28VDC	V = 28VDC	V = 28VDC	i = 3A
	8	Type of Power Controller	DC - 1 Pole	DC - 1 Pole	DC - 1 Pole (28VDC Test Lamp Driver)	DC - 1 Fole (28VDC Test Lamp Driver)	DC - 1 Fole
	7	Table Ites /	105	306	nn7	118	611

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FIGURE 2 SHEET 1	8	Aquation Description & Notes	Wing Flap Glove Vane Controller (50A5) Test 28VDC = 28VDC Right Main Bus Energized	ADC 1199AC fm = Right Wain Generator On-Line or Left Wain Generator On-Line or Ground Cooling Pressure Switch High	Wing Flap Glove Vanc Controller (50A5) Flap 115VAC (C = 115VAC (C Essential #2 Bus	Wing Flap Glove Vanc Controller (50A5) 115VAC GC #1 = 115VAC GC Essential #2 Bus	Wing Flap Glove Vanc Controller (50A5) 115VAC GC R2 = 115VAC GC Essential R2 Bus	Wing Sweep Indicator (50M6) 115VAC #8 = 115VAC #8 Essential #2 Bus	Angle of Attack Filter (45A5) 115VACf8 = 115VAC f8 Essential #2 Bus	Flaps Position Indicator and Plap Position Transmitter 1159AC #8 = 1159AC #8 Essential #2 Bus	Wing Oversweep Actuator 115VAC #A= IMIG Weight On Wheels AND BMIG Weight on wheels AND Horizontal Tail Authority Stop Switch Open AND Wing Sweep Handle Position Switch Raised 2-5. Inches OR Weight on Wheels AND Wing Sweep Handle Switch < 60° AND Wing Sweep Handle Position Switch Lowered AND Horizontal Tail Restricted Authority Switch Restricted OR Art Stick Authority Switch Reduced Authority	Wing Oversweep Actuator 115VAC #6 (Extend) = Left AMD Nathority Hild beight on Wheels AMD Norizontal Authority Stop Suitch Open AND Wing Sweep Handle Position Switch - Raised 2.5 Inches
2	7	le ference Drawings	INSPD F1g. 2 Zone 17A	IMSPD F1g. 2 Zone IA, 2A, 9C	INSPD F1g. 2 Zone 17C	IWSFD Fig. 2 Zone 17C	INSFD Fig. 2 Zone 17C	IWSFD Fig. 2 Zone 21C	INSPD F1g. 2 Zone 8B	INSPD P1g. 2 Zone 30B, 32A	IMSPD F18, 2 Zone LG, 28, 2C, 3C, 38C, 37C, 358, 2CB	Same as Above
TABLE III F-14 SOSTEL BOGLEAN EQUATIONS	9	Special Considerations	R. Mein Bas	Ess. No. 2 Bus	Ess. No. 2 Bus	Ess. No. 2 Bus	Ess. No. 2 Bus	Ess. No. 2 Bus	Ess. No. 2 Bus	Ess. No. 2 hus	* See Wote 1 Ess. No. 2 Bus	* See Note 1 ** See Note 2 Egs. No. 2 Bus
TABLE III P-14	•	Bus/Load Management Priority	3	21	2	2	N	2	æ	N	Ν	a
		Solid State Controller List Cross Reference	018	610	0.20	130	230	E ao	130	5.30	\$6	906
	3	Transducer List Cross Meference	NA NA	8 6 8	NA	¥	2	4	2	2	000 000 000 000 000 000 000	000 100 026 026
	8	Boolean Equation	e ini8	UCLO19 = XASOO3 + XASOO4 + HNSOO5	CKIDEO	CKIDE1	CKIDE2	скитьз	11.1024	\$20110	GENDS = (HENDE • GENDS • (CENDS • CENDS) • (CENDS • CENDS) • (CENDS) • (CENDS)	GELOSE = CRSUSE • GRSUST • CRSUSE •
	-	Table Ites /	810	610	050	rao	250	623	t _i ao	5.20	8	96

Translator Tra									
2 3 4 5 5 5 6	FIGURE 2 SHEET 2	99	Equation Description & Notes	Wing Oversweep Actuator 1159Ac \$6 (Retract) = Left AND Right Min Meight on Wheels AND Wing Sweep Handle Position Switch - < 68° AND Wing Sweep Handle Position Switch Lowered AND Wing Sweep Handle Switch Switch Restricted ON AT\$ Stick Authority Switch - Reduced Authority	Wing Oversweep Actuator 20VDC Clutch/Brake Solemoid = Left AND Hight Huis Weight on Wheela AND Merizontal Tail Authority Stop Switch Open AND Wing Sweep Handle Position Switch Raised 2.5 Inches OR Weight on Wheela AND Wing Sweep Handle Switch C 50° AND Wing Sweep Handle Switch Lowered AND Wing Sweep Handle Position Switch Lowered AND Ming Sweep Handle Position Switch Lowered AND Meritated OR Aff Stick Authority Switch - Keduced Authority	Enable > 20 ^o Wing Sweep (28VDC) = Left Aux Flap Retract Switch Retracted <u>AND</u> Right Aux Flap Retract Switch Retracted <u>AND</u> Flap Handle < 6 ^o	$< 6^{\rm O}$ Discrete to the AC Power Contactor Assembly (66A6) = Plap Handle $< 6^{\rm O}$	Retract Right and Left Aux Flaps and Disable Flap - Slat Drive = Right Flap Overtravel Up OR Right Flap Overtravel Doom Girft Flap Overtravel Up OR Left Flap Overtravel Doom OR Left AND Right Flap Asymmetry OR Left AND Right Slaf Asymmetry	
Solid State	2	7	Heference Drawings	IMSPD Fig. 2 Zone 1C, 2B, 2C, 3C, 3G, 37C, 35B, 2GB	Same as Above	IMSFD Fig. 2 Zones 1C,24c, 26a,33a,34a, 35a, 35c	IMSPD Fig. 2 Zone 33A	IMSFD F18. 2 Zones 24, 20B, 40B,26A,33A, 33B,37A,38A,39A, 1,0A,1C,26B,35C	
Solid State	SOSTEL BOOLEAN EQUATIO	9	Special Considerations	* See Note 1 ** See Note 2 Ess. No. 2 Bus	* See Note 1 Ess. No. 2 Bus	Ess. No. 2 Bus	€	Ess. No. 2 Bus	
Transducer List Cross	TABLE III F-14	2	Bus/Load Management Priority	o.	N	æ	a	a)	
Boolean Bruntion CELD97 = (USOOR e CESOP) CFSOR CFSOR e CESOP CFSOR CFSOR		4	Solid State Controller List Cross Reference	160	98	201	103	t or	
		8	Transducer List Cross Reference	30 8 8 8 20 8 20 8 20 8	000 000 000 000 000 000 000 000 000	034 035 036	980	037 038 038 040 042 043	
1 103 103 104 104 105 105 105 105 105 105 105 105 105 105		æ	Boolean Equation	CREO7F = (CREO2E • CREO3O • CREO27) • (CFEO2E + CREO29)	CELO-9 = (UNSOCE • UNSOCE • CESCACE • CESCACE • CESCAC • CESCAC • CESCACE) • (CESCACE • CESCACE)	CKLJU2 = CKSO34 • CKSO35 • CKSO35	CKL103 = CKS036	CKLION = CKSOA1 + CKSOA2 + CKSOA3 + CKSOA4 + (CKSOA3 • CKSOA) + (CKSOA3 • CKSOAB)	
		-	Table Item /	160	98	251	103	104	

8	Equation Description & Notes	Extend Fight and Left Aux Flaps Wing Sweep 200 AND Flap Handle > 50 AND Flap Interlock Engaged AND (Retract Right and Left Aux Flaps and Disable Flap-Slat Drive) NOT	Sweep indicator 28VDC = 28 VDC ESS, #2 Bus Energized	Sys Test - Sys Pur Punel - NO GO Test Lamp is on = Sys Test - Sys Pur Punel Door Switch Open AMD Test Switch Depressed AMD Test Selector Switch in the Wing Sweep Position AMD Flap Interlock Engaged	Sys. Test Sys Pur Panel - GO Test Lamp is On a Sys Test - Sys Pur Panel Loor Switch Open AND Fest Switch Lepressed AND Test Selector Switch in the Wing Sweep Position AND Flap Interlock Engaged	Wheels - Flaps Position Indicator (28VDC) = 28VDC ESS. #2 Bus Energised	
7	Reference Drawings	INSED F18. 2 Zones 24., 208, 409,264,334, 338, 404, 10, 268, 350	IWSFD Fig. 1 Zone lC, 21B	IMSED Fig. 2 Zone 39C, 26B, 24B, 1C	IMSFD Fig. 2 Zone 39C, 26B, 24B, 1C	Zone 32A, 1C	
9	Special Considerations	Ess. No. 2 Bus	Ess. No. 2 Bus	R. Mein Bus	R. Mein Bus	Ess. No. 2 Bus	
۰	Bus/Load Management Priority	O.	N	e.	e.	N	
4	Solid State Controller List Cross Reference	\$01	901	пл	911	én	
9	Transducer List Cross Reference	037 038 040 042 042 043 045 045	N/A	04.7 054 055 071	488	ş	
2	Boolean Equation	CKLIOS = CKSO45 • CKSO39 • CKSO39 • CKSO39 •	CELLOS	MILIT = MASO54 • MISO55 • CKSO71 • CKSO47	MJL11B = WASO54 • M3O55 • CKSO71	611 136	
-	Pale Ites (507	901	7п	8111	'n	
	3 6 7	2 3 4 5 6 7 Solid State Transducer Controller Management Special Reference Boolean Equation Reference Reference Priority Considerations Drawings	Solid State Solid State Solid State Solid State Solid State Solid State Bas/Load Special Beforence Inst Cross Inst Cross Priority Considerations Drawings CKLIOS = CKSOM5 = O37 105 2 Ess. No. 2 Bus INSED Fig. 2 Zones 24, 208, 043 O44 O45 O45	Solid State Solid State Solid State Solid State Solid State Bas/Load Special Bretween Bretween Bretween Brita Cross List Cross List Cross Britangement Brita	Transducer Controller Bus/Load Special Reference Controller Int. Cross List Cross List Cross List Cross List Cross Reference Reference	Transducer Solid State Bas/Load Special Reference Drawlings Draw	Column Part Part

SHEET	13 Conditioning Technique	Solid State	Solid State
FIGURE 3 SHEET 1	12 Associated Boolean Equation	026 027 028 553	98 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
	11 Reference Drawings	IWSFD. Fig. 3 Zone 38	1 WSPD- Fr. 3 Zone 3B
	10 Operational Addre sa	02P07	90108
	9 Conventional Switches Being Replaced or Deleted	1 - DPTF Switch	DFIT Switch
TRANSDICERS	Associated Loads	Left Glove Helay Box (773A1) K30 Anti- ice Probe Heater #2	Same sa above
TABLE I F-14 SOSTEL SIGNAL TRANSDICERS	7 Present Signal Characteristics	Open or Switched 28VDC	Open or Saltched
TABLE I	6 Transducer Type	3 Position Toggle Switch	3 Position Toggle Switch
	Point of Origin	Pilots Right Side Console FW25	Pilots Right Side Console FW225
	4 Signal Source Box Identification	Ext. Environment Control Panel (792A1)	Ext. Environment Control Fanel (See above)
	3 Identifier Code	HASO06	IMSOX/
	2 Signal Mame/Punction	Eng/Probes Anti-ice Switch-Oride	Eng/Frobes Anti-ice Switch-Auto
	Table Ite	98	100

	90						
FIGURE 3 SHEET 2	13 Conditioning Technique	Solid State	Solid State	Solid State	Solid State	Solid State	
FIGURE 3	12 Associated Boolean Equation	1074, B, C, D 1084, B, C, D 1094, B, C, D 158 thru 167	1074, B, C, D 1084, B, C, D 1094, B, C, D 283 284 297	107A, B, C, D 104A, B, C, D 109A, B, C, D	107A, B, C, D 108A, B, C, D 109A, B, C, D 297	709 099 540 708 264 298 265 287 107A, B, C, D 109A, B, C, D 109A, B, C, D 1155, 154, 1155, 156, 1193, 194, 284, 279,	
	11 Reference Drawings	IWSFD F1g. 3 Zone 6C	IWSFD Flg. 3 Zone 12B	IWSFD Fig. 3 Zone 12B	IWSFD Fig. 3 Zone 9B	IWSFD Fig. 3 Zone 10B	
	10 Operational Address	01410	02P09	огъо	07P20	0.1913	
	9 Conventional Switches Being Replaced or Deleted	Exterior Lites Switch	Mook Control Handle Switch	Hook Bypess Switch	Hook Down Switch	MG Hendle Switch	M.G handle down)
TRANSDUCERS	β Associated Loads	K21- Approach Lites Dim Relay (Right Glove Relay Box 772A1)	s) AC Flasher (60BS19) b) 26 Volt Auto Trans- former (45T1)	Same as above 04.9	K8 - Hook Down Relay (Right Glove Relay Box 772A1)	K6 MLG HDL "D" Relay (Right Glove Relay Box 772Al)	on wheels AND
TABLE I P-14 SCETEL SIGNAL TRANSDUCERS	7 Present Signal Characteristics	OFF = Open	DOMN = 115 VAC gB UP = 115 VAC gB	Cerrier = 115 VAC ØB Field - 115 VAC ØB	Hook Down =GND Not Down = Open	DOWN = 28VDC	LG Weight is not
TABLE I	6 Trensducer Type	Toggle Switch	Toggle Switch	Toggle Switch	Limit Switch	Toggle Switch	of or Right M
	5 Point of Origin	Pilots Left Side Console FS25	Pilote Right Console FE225	Hlots Right Side Con- sole FS225	AFt FS 738 WL 125	Left Vertical Console FW25	els) <u>OR</u> (L 12 • MLG ha
	l, Signal Source Box Identification	Throttle quadrant (711A1)	Hook/Gun Panel (706A1)	Mester Lite Control Fanel (713A1)	Hook Down Switch (4982)	M.C. Handle	ght MLG Weight on Wheels) \overline{OR} (Left or Right MLG Weight is not on wheels \overline{AND} MLG handle down) (22) + $(\overline{CISONZ} + \overline{CISINZ} - \overline{CISINZ} - \overline{CISINZ} - \overline{CISINZ} - \overline{CISINZ}$
	3 Identifier Code	LASO48	6080049	050200	663051	₹ose	
	2 Signal Name/Function	Exterior Lites - Off	Hook Control	Hook Bypass - Carrier	Arresting Hook - Down	M.G Down	1a) M.G-Down (Left <u>AND</u> H 1b) GDSO52 = (GDSO02 • GDS)
	Table Item #	3	\$	80	1,00	ox o	Note:

tronic Adapteer (Voltage Sense)
Fig. 3 Zone 8B
South
Approach Lemp File- ments
0 11
Left Instru- ment Pan- el FS225
Indicator (4582)
5

SHEET "	13 Conditioning Technique	External Electronic Adapter (Voltage	Solid State
FIGURE 3 SHEET 4	12 Associated Boolean Equation	109 A, B, C, D	1204, B. C. D 11214, B. C. D 1224, B. C. D 570 570 577 577
	11 Reference Drawings	IWSFD F1g. 3 Zone 8B	Ng. 3 Zone 6B
	10 Operational Address	40050	оери
	9 Conventional Switchea Being Replaced or Deleted	И/А	
TRANSDUCERS	8 Associated Loads	Normel Approach Lemp File- ments	Kij Wern- lieg LITS Tieg LITS Relsy
TABLE I F-14 SOSTEL SIGNAL TRANSDUCERS	7 Present Signal Characteristics	NOFWAL = 26 VAC NOFWAL = Open	Rotary LITS - 20 vbc Switch LITS - Open
TABLE I	6 Transducer Type	N/A	
	5 Point of Origin	Pilots Left In- strument Panel Fixel	Pilota Right Side Con- sole PW225
	ly Signal Source Box Identification	Angle of Attack Indicator (45A2)	(734A1)
	3 Identifier Code	LASO58	LASO73
	2 Signal Name/Function	Normal Approach	517
	Table Item	950	973

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PLOURE 3 SHEET 1	a	Associated Boolean Equations	98
Ĕ	п	Reference Drawings	1MSPD F1g. 3 20ne 3B, 4B, 18 1MSPD F1g. 4 20ne 4B
	91	Identifier Code	MALORE
	6	Operational	10010
R CONTROLLERS AND DRIVERS	80	Conventional Devices Being Replaced	CEG (7.5A) And Atta Potal Temp Hr. (35A4) KEY Let. Glove Kelay Box (773A1) Anti-ice Probe Hr. Relay H. M.T. Let. Glove Kelay Relay CEB3 (3A) Eng. /Probe Anti-ice (35A3) KEY (773A1) Anti-ice Probe Hr. Relay #2
TABLE II F-14 SOLID STATE POFER CONTROLLERS AND DRIVERS	7	P.C. Location	
	9	Load Power Dissipation	
a	2	Duty Cycle	
	,	Associated Loads	a) Angle of Attack Transmitter (453) Heaters b) Let Total Tem- perature Probe Heater (0562)
	3	Reting V & I	y = 115VAC 1 = 7.5 1 = AMP
	8	Type of Power Controller	AC - 1 Pole
	-	Table Item #	8

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21	Associated Boolean Equations	107A, B	108а, в	109A, B	207A, B	20fa, B	209A, B	от
п	Reference Drevings	INSFD FIG. 3	IWSPD PIG. 3	IWSFD F1g. 3	INSPD PAG. 3	IWSFD FIR. 3	INSPD FIG. 3	INSTO FIG. 3 Zone 5A, 7A
or	Identifier Code	LALIO7	1.AL108	FAL109	LAL207	LAL206	LAL209	PD1.11.0
•	Operational	03439	03040	03941				07406
0	Conventional Devices Being Replaced	CB55 (5A) 28 VDC - Ext. Lt Contr (36A2)	CB32 (5A) 28 VDC - GMD Test/Mach Lvr Bit (36A4) CEGO (5A) 115 VAC - Angle of Attk Ind. AC (35A2)	CB31 (5A) 28 VDC - Rain Rp1/Auti-ice Coutr/ Hk Contr (3GA2)	K19 M.G Safety "A" WOW Right Glove Relay Box (772A1)	KAB GND Test Hight Glove Relay Box (772A1) KB Hook Down Right Glove Relay Box (772A1)	K21 Approach Lites Dim Hight Glove Relay Box (772A1) AC Flasher (60B319)	CREO (5A) 115 VAC - Angle of Atth Ind. AC (35A2) Same as Item 107, 108, 109
7	P.C. Location	/			~			
9	Load Power Dissipation							
•	Duty				~		_	100%
	Associated Loads	High Approach Lite Bright (Green)	Low Approach Lite Bright (Red)	Normal Approach Lite Bright (Yellow)	High Approach Lite Dim (Green)	Low Approach Lite Dim (Red)	Normal Approach Lite Dim (Yellow)	a) Angle of Attack Filter (4,545) b) Angle of Attack (4,542)
	Reting V & I							v = 115 I = vac
C4	Type of Power Controller	1 Pole 26VAC	1 Pole 26 VAC	1 Pole 26 VAC	1 Pole 26 VAC	1 Pole 26VAC	1 Pole 26 VAC	AC - 1 Pole
-	Table Ite (101	108	109	201	908	209	011
	3 4 5 6 7 8 9 10 11	2 3 4 5 6 7 8 9 10 11 Type of Rating Associated Loads Controller V & I Associated Loads Controller V & I Associated Loads Controller V & I Controller V & I Associated Loads Controller Controller V & I Associated Loads Controller C	Type of Pating Load P.C. Conventional Devices Services Code Conventional Devices Code C	1 2 3 4 5 6 7 8 9 10 11	1 2 3 4 5 6 7 8 9 10 11	Type of Rating Associated Codds Conventional Devices P.C. Conventional Devices P.C. Data Relational Devices P.C. Conventional Devices Address Code Drevings Dr	1 2 3 4 5 6 7 8 9 10 11	1 Folicy 1

(3)

PT GURE 3_ SHEET 3	21	Associated Boolean Equations				
SURE 3		Boole	120	121	152	हत
M	п	Reference Drawings	IWSFD FIG. 3 Zone 10C,11C	IWSFD Fig. 3 Zone 10C, 11C	IWSPD Fig. 3 Zone 10C, 11C	Zone 7C
	10	Identifier Code	L.A.120	LALI21	LAL122	FRLLE3
	6	Operational	91020	Cen.7	91020	61020
TABLE II P-14 SOLID STATE FORER CONTROLLERS AND DRIVERS	80	Conventional Devices Being Replaced	Kl3 (Werming lights test No. 2) CB17 (5A) Angle of Attk Ind DC (36A2)	Same as above (Item 120)	Same as above (Item 120)	CBI7 (5A) Augle of Atth Ind DC (5GA2) (Same as Item 120)
LID STATE FORE	7	P.C. Location				
क्ष मा अन्य	9	Load Power Dissipation				
A	5	Duty				1004
		Associated Loads	High Indexer Lite Drive Master Lite Con- trol Panel (713A1)	Low Indexer Lite Drive Master Lite Control Panel (713A1)	Normal Indexer Lite Drive Master Lite Con- trol Fanel (713A1)	Angle of Attack Indicator (45A2)
		Reting V & I	V = 28VDC I =	v - 28VDC I -	V = 28VDC I =	I - 28VDC
	N .	Type of Power Controller	DC - 1 Fole (Could be low power lamp driver)	DC - 1 Fole (Could be low power lamp driver)	DC - 1 Fole (could be low power lamp driver)	pc - 1 Pole
	-	Table It #	021	121	752	

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MGURE 3 SHEET	•	Equation Description & Motes	Angle of Attack Transmitter (45A3) heaters and the left total temperature probe (65A2) heaters are GM - if the engine/probe anti-ice switch is in GMIDE or if in the AUTO position AND left AND right MAG does not have weight on wirels	High approach lite brite steady = Lert OR right NLG weight is not on wheels AND MLG down AND arresting hook down AND high approach detected AND exterior lites off OR	Left OR right M.G. Wheels AND M.G. down AND streating Weight is not on wheels AND M.G. down AND streating hook not down AND field is selected AND hook control handle up AND high approach detected AND exterior lites off	Left AND right M.G. weight is on wheels AND M.G down AND stresting hook down AND high approach detected AND exterior lites of AND door switch open AND -6 Att selected AND the Test button is depressed or was depressed when all other conditions were satisfied	DATE OF THE WAS NOT THE WAS AND WISHEST OF WEIGHT IS ON WHEELS AND MIG GOOM AND BITESTING HOCK OF AND WISHEST OF THE WAS A SELECTED AND MIGHT SPRONGED GENERAL OF AND A TRIB GOOD SAIGHD OF AND A TRIB SELECTION INTERNATION OF THE WAS A TRIB ASSECTED. THE WAS A SECRET OF THE WAS A SECRET	Note: Brite Steady - Requires controller on 107A (26 VAC steady)	107A = Brite Steady 107B = Din Steady 107C = Brite Steady 107D = Dim Flash	
	1	Reference Drawings	IWSFD Fig. 3 Zone 3B, 4B, 5A	INSFD FIG. 3						
TABLE III F-14 SOSTEL BOLLEAN EQUATIONS	•	Special Considerations	#88A	Ess #2		** Latching Test Button Punction				
TABLE III F-14	\$	Bus/Load Management Priority	cu .	a						
		Solid State Controller List Cross Reference	920	107						
	8	Transducer List Cross Reference	006 006 007	000 048100 049 050 051	952 953 955 955 956					
	æ	Boolean Equation	HALO26 = HASOO6 + HASOO7 • \$\overline{100}{000}\$ •	TAL107 (面302 + 面3102)	[(\pi \text{size}) \cdot \text{size} \text{size} \cdot \text{size} \text{size} \cdot \text{size} \text{size} \cdot \tex	143470 145002 145002 145002 145002 145002 145003 145003 145003 145003 145002 1				
	-	Table Item #	920	107A (See note)	:	•	1			
	_									•

Cu	_		
FIGURE 3 SHEET 2	80	Equation Description & Notes	Low approach lite brite steady = left OR right MGG beight is not on wheels AMD WGG down AMD arresting book down AMD high approach detected AMD exterior lites off OR CAT OR right MGG down AMD arresting book not down AMD field is selected AMD now control handle up AMD low approach detected AMD exterior lites off OR approach detected AMD exterior lites of OR CAMD ion approach detected AMD exterior lites of OR CAMD ion approach detected AMD exterior lites of AMD down AMD low approach detected AMD exterior lites of AMD down AMD or switch open AMD 4 ARIX selected AMD the other conditions were selisted to the control handle up AMD low approach detected AMD excertor lites of AMD down AMD right MG or while a selected AMD marresting book not down AMD right MG appreased or was depreased when all other conditions were selisted AMD most appreased or was depreased when all other conditions were selisted AMD appreased when all other conditions were selisted AMD appreased when all other Effects Steady - Requires controller on looka (26/MC Steady)
	7	Reference Drawings	INSFD Fig. 3
TABLE III P-14 SOSTEL BOCLEAN EQUATIONS	9	Special Considerations	** Latching test button function
TABLE III P-14	٠	Bus/Losd Management Priority	N
	,	Solid State Controller List Cross Reference	901
	6	Transducer List Cross Reference	98.9 9.9 9.9 9.9 9.9 9.9 9.9 9.9 9.9 9.9
	æ	Boolean Equation	(14.10% - (35.00% + 35.00% +
	-	Table Item #	108A (*ee Note)

80	Equation Description & Notes	Normal approach lite brite steady = left OR right MLG Weight is not on wheels AND MLG down AND arresting hoof down AND normal approach detected AND exterior lites of the normal approach detected AND exterior Left OR right MLG OR Weight is not on wheels AND MLG down AND arresting hook not down AND field is selected AND hoof control handle up AND normal approach detected AND exterior lites off OR	Left AND right MG Weight Is on wheels AND MG down AND stresting hook down AND nomes largered by the stresting hook down AND romes largered by the strest of lites of and door match open AND 4 Acts asterior lites of the button is depressed or was depressed when all other conditions were satisfied Left AND right MG. Not down AND Theid is welected AND hook control headle up AND affected AND stresting hook not down AND ited is welected AND hook control headle up AND affected AND stresting hook not down AND the test button is depressed or was depressed AND the test button is depressed and the test
7	Reference Drawings	INSPD PAg. 3	
9	Special Considerations	Ess #2	•• Latching Test Button Punction
•	Bus/Load Management Priority	ci ci	
,	Solid State Controller List Cross Reference	601	
9	Transducer List Cross Reference	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	
8	Boolean Equation	A 10 10 10 10 10 10 10	GUSTOZ - GUSDOZ - GUSZOZI - LASDÓZ - LASDÓZ - MASDÓZ (‡+1) - [GUSZOZ - GUSZOZ - GUSZOZ - GUSZOZ - GUSZOZ - GUSZOZ - GUSZOZ - LASDÓZ - LASDÓZ - MASDÓZ - LASDÓZ - MISDÓZ (‡+1)
-	Table Item #	loga (See note)	: :
	3 4 5 6 7	2 3 bolld State Solid State Controller List Cross List Cross Reference Reference Priority Considerations Drawings	Property

10 2 3 4 4 5 6 6 6 6 6 6 6 6 6	_			
2 3 1,	FICURE 3 SHEET L	80	Equation Description & Motes	High approach lite brite flash = Left OR right Might is not on wheels AND Mig down AND arresting hook not down AND high approach detected AND exterior lites off AND carrier is selected OR Left OR right Might work of down AND high approach detected AND arresting hook not down AND high approach detected AND exterior lites off AND field is selected AND exterior lites off AND field is selected AND exterior lites off AND field is selected AND exterior lites off AND field by approach detected AND exterior lites off AND field is selected AND how control lendle is down AND high approach detected AND exterior lites off AND field is selected AND how control lendle is down AND high approach detected AND exertion lites off AND field is selected AND how control lendle is down AND how control lendle is down AND high approach detected AND exertion lites off AND field is selected AND how control lendle is down AND high approach detected AND exertion lites off AND field is selected AND how control lendle is down AND high approach detected AND exertion lites off AND field is selected AND how control lendle is down AND high approach detected AND exertion lites off AND field is selected AND where satisfied the and approach and the present and all and and and approach and
Solid State Controller Controller List Gross Gross	2	7	Reference Drawings	INSPD. FIg. 3
Solid State Controller Controller List Gross Gross	SOSTEL BOOLEAN BOUATIO	9	Special Considerations	Ess #P
1 14 15 15 15 15 15 15	TABLE III F-14	5	Bus/Load Management Priority	a
Boolean Runtion		4	Solid State Controller List Cross Reference	10 <i>q</i>
		9	Transducer List Cross Reference	
Theis 107B		cv .	Boolean Equation	
		-	Table Item #	See note)

1.00 1.00		_		
10 10 10 10 10 10 10 10	FIGURE 3 SHEET 2	8	Equation Description & Motes	Low approach lite brite flash = left OR right MG weight is not on wheals AND MG down AND braresting hook not down AND low approach detected AND exterior lites off AND carrier is selected Left OR right MG Weight is not on wheels AND MG down AND artesting hook not down AND low approach detected AND exterior lites of AND flash is selected AND exterior lites of AND maresting hook not down AND low approach detected AND exterior lites of AND maresting hook hood down AND low approach detected AND exterior lites of AND exterior lites of AND exterior lites of AND exterior lites of AND carrier is selected AND door switch open AND was depressed when all other conditions were satisfied own AND low approach detected AND exterior lites of AND exterior lites of AND exterior lites of AND exterior lites of AND flow approach detected AND exterior lites of AND flow approach detected AND hook control headle is down AND door switch open and 45 attk selected AND the eart button is depressed or was depressed When all other conditions were satisfied Note: On for 20.6 sec off for 20.2 sec
1		1	Reference Drawings	INSPD FIG. 3
1	SOSTEL BOOLEAN BOUNTIO	9	Special Considerations	Ess #2
Transducer List Cross Boolean Equation Beference List Cross List Gross Gasoox G	TABLE III P-14	•	Bus/Load Management Priority	N .
Boolean Equation Boolean Equation CASO CASO			Solid State Controller List Cross Reference	901
Manual M			Transducer List Cross Reference	98 58 88 88 88 88 88 88 88 88 88 88 88 88
		O.	Boolean Equation	March Cascor
		-	Table Item #	(See note)

NOW SHEET	•	Equation Description & Motes	Normal approach lite brite flash = left Off Fright M.G. Weight is not on wheels AND M.G. down AND arresting hook not down AND normal approach detected AND exterior lites off AND carrier is selected OR Left Off Fight M.G. Weight is not on wheels AND M.G. down AND arresting hook not on wheels AND field is selected AND book control handle is down OR Left AND right M.G. Weight is on wheels AND W.G. down AND arresting hook not down AND normal approach detected AND cor safeth open AND fall a selected AND cor safeth of a satisfied on wheels AND who all other conditions were satisfied and modification of down AND normal approach detected AND exterior lites of TAND right M.G. Weight is on wheels AND wide detected AND cortrol handle is down AND arresting hook not down AND normal approach detected AND exterior lites of TAND right of a selected and modification of down AND the test button is depressed or was denested AND the test button is depressed or was denested AND the test button is depressed or was denested AND the test button is depressed or was denested AND the test button is depressed or was denested when all other conditions were satisfied NOTC - Brite Flash requires SSPt to be turned on for 20.6 sec off for 20.2 sec
2	,	Reference Drawings	INSPO Pig. 3
MALE III 1-14 SOSTEL BOLEAN MANTION	9	Special Considerations	* Latch test button function
10 P. 14	•	Bus/Lond Management Priority	ર
	•	Solid State Controller List Cross Reference	109
	8	Transducer List Cross Reference	98.8 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5
	Q	Boolean Equation	(面部の
	-	Table Item	109B

1984 11 12 12 1 1 1 1 1 1		_		
Photon Resultion Page 111 P.14 Stoff Page 141 P.14 Stoff P	PTGURE 3 SHEET 7	80	Mquetion Description & Notes	High approach lite dim steady = left OR right M.G Meight is not on wheels AND M.G down AND arresting hook down and high approach detected AND arresting hook down and high approach detected AND exterior lites on the state of th
A	SHO	7	Reference Drawings	INSPO Pig. 3
A	SOSTEL BOOLEAN EQUATIO	9	Special Considerations	** Latching Test Button Punction
Transducer List Cross Boolean Equation Before List Cross Cassor Cassor	TABLE III F-14	5	Bus/Load Management Priority	₹v
Boolean Equation Boolean Equation Boolean Equation Gassor Gassor		4	Solid State Controller List Cross Reference	507
		6	Transducer List Cross Reference	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50
		8	Boolean Equation	LALZOY (
		-	Table Item #	

٩	_		
NOW A SHEET B	•	Aquation Description & Motes	Low approach life dis steady = Left OB right Mid Meight is not on wheels AND Mid down AND arresting hook down and low approach detected AND arresting hook down and low approach detected AND exterior lites on the AND field is elected AND exterior lites on the AND field is elected AND exterior lites on AND low approach detected AND arresting hook down AND low approach detected AND exterior lites on AND Low approach detected AND exterior lites on AND alow approach detected AND exterior lites on AND about such open AND 4 EUK selected AND the country other conditions were satisfied OR Left AND right Mid weight is on wheels AND Mid down AND arresting hook not down AND the List is selected AND exception handle up AND low approach detected AND exterior lites on AND door switch open and 4 sith selected AND the test button is depressed or was depressed AND the right handle up AND the conflictions were satisfied AND the test button is depressed or was depressed AND the test button is depressed or was depressed AND which all other conditions were satisfied
2	7	Reference Drawings	148FD F1g. 3
TABLE 111 P-14 SOSTEL BOOLEAN EQUATIONS	•	Special Considerations	** Latching test button function
TABLE III F-14 S	2	Bus/Load Management Priority	2
	4	Solid State Controller List Cross Reference	208
		Transducer List Cross Reference	900 900 900 900 900 900 900 900 900 900
	2	Boolean Equation	- авоож - (авоож - авоож - ав
	-	Table Item #	208A

90	Rquetion Description & Motes	Mormal approach lite dis steady = Left OR Fight MG Weight is not on wheels AND MG down AND stressing Hock down AND normal approach detected AND exterior lites on OR Left OR right MG OR Left AND right WG NB Left AND right WG OR Left Rejected AND was depressed or was depressed when all other conditions were satisfied
1	Reference Drawings	INSED PAG. 3
•	Special Considerations	** Latching Test Button Function
•	Bus/Load Management Priority	8
	Solid State Controller List Cross Reference	602
	Transducer List Cross Reference	98-98-98-98-98-98-98-98-98-98-98-98-98-9
æ	Boolean Equation	[1-1] \(\chi_{\chi\tokent}}}}}}}} \chi_{\chi\ti}}}}}}}}}} \chi_{\chi}}}}}}}}} \chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi}}}}}}}}}} \chi_{\chi_{\chi_{\chi}\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi}}}}}}}}} \chi_{\chi_{\chi_{\chi_{\chi}}}}}}} \chi_{\chi_{\chi_{\chi_{\chi}}}}}} \chi_{\chi_{\chi_{\chi}\chi_{\chi_{\chi_{\chi_{\chi}}}}}}}} \chi_{\chi_{\chi_{\chi}\chi_{\chi}}}}}}}} \chi_{\ch
-	Table Item	1 1 6 00
		2 3 6014 State Controller Cross Boolean Equation Reference Boolean Equation Reference

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•	Equation Description & Notes	High approach lite dim flash = Left OR right weight is not on wheels AND MG down AND arresting hook is not down AND caterior lites on ON the AND Field is selected AND hook hook is not down AND field is selected AND hook control handle is down AND high approach is detected AND exterior lites on ON the AND carrier is selected AND high approach is detected AND carrier is selected AND high approach is detected AND carrier is selected AND high approach is detected AND carrier is selected AND high approach is detected AND the ON the AND carrier is selected AND high approach is detected AND the AND carrier is selected AND high approach is detected and the feat button is depressed or was depressed when all other conditions were satisfied. Note: **Out of see OFF POK** **Out of see OFF P
,	heference Drawings	INSPD PIG. 3
9	Special Considerations	** Latching Test Button Function
•	Bus/Load Management Priority	a
	Solid State Controller List Cross Reference	207
•	Transducer List Cross Reference	88 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
~	Boleen Equation	(
1 1	Pable Item /	207B (See note)

1			
FIGURE 3 SHEET 11	60	Equation Description & Notes	Low approach life dis flash = Left OR right MGG weight is not on wheels AND MGG down AND streeting book is not down AND carrier is selected AND low approach is detected AND exterior lites on OR left OR right MGG who will be selected and low approach is accepted and hook is not down and tow approach is accepted and hook control handle is sown and low approach is accepted and weight is on wheels AND MGG down AND arresting book is not down AND carrier is asketed AND low approach is accepted AND low approach is accepted AND low approach is detected AND carrier is asketed AND low approach is detected AND the test button is depressed or was depressed When all other conditions were astisfied or was depressed When all other conditions were astisfied and of own AND fletish as elected AND the degree and the selected AND the degree and the selected AND the test button is depressed AND accepted AND the test button is depressed AND the control bandle is down AND low approach is depressed when all other conditions were satisfied when all other conditions were satisfied by a plass and a selected AND the test button is depressed when all other conditions were satisfied. Note: Note
S	7	Reference Drawings	INSPD FIG. 3
TABLE III F.14 SOSTEL BOCLEAN EQUATIONS	9	Special Considerations	Eas #2
TABLE 111 P-14	٠	Bus/Load Management Priority	cu.
		Solid State Controller List Cross Reference	206
		Transducer List Cross Reference	000 000 000 000 000 000 000 000 000 00
	2	Boolean Equation	JALOH
	-	Table Item #	See note)

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80	Equation Description & Notes	Normal approach lite dis flash = left OR Right M.G Weight is not down AMD carrier is selected AMD normal approach is descreted AMD exterior lites on OR Left OR right M.G M.D. AMD down AMD arresting hook is not down AMD field is selected AMD hooks hook is not down AMD field is selected AMD hooks and exterior lites on OR Left AMD right M.G M.D. Normal approach is detected and exterior lites on OR Left AMD right M.G M.D. M.D. M.D. M.D. M.D. M.D. M.D.
7	Ne ference Drawings	IMSED F18. 3
9	Special Considerations	Ess #2 Button Function
5	Bus/Load Management Priority	e e
4	Solid State Controller List Cross Reference	50)
8	Transducer List Cross Reference	900 900 900 900 900 900 900 900 900 900
8	Boolean Equation	(+1)
	Table Item #	209B
	3 4 5 6 7	2 3 th 5 6 7 Solid State Bas/Load Controller Cross List Cross Reference Reference Priority Considerations Drawings

-						
FIGURE 3 SHEET 13	9	Mquetion Description & Notes	115 VAC \$8 to angle of attack filter and angle of attack indicator = 115 VAC \$8 Eas. \$2 Bus energised	High indexer lite drive = its selected on the master test panel AND test selector switch depressed OR (See LALIOTA, B, C, & D)	Low indexer litte drive - Lts selected on the master test panel AND test selector switch depressed OR (See IALIOGA, B, C, D,)	Mormal indexer lite drive = its selected on the master test panel AUD test selector switch depressed OR (See IALLOGA, B, C, D)
2	7	Reference Drewings	IMSPD F16. 3 Zone 5A, 7A	INSP Pig. 3 Zone 10, 11	INSP FIG. 3 Zone 10, 13	INSPD F16. 3
TABLE III P-14 SOSTEL BOCLEAN BOUNTIONS	9	Special Considerations	3	¥ **	Ess R2	Ess #2
TABLE III P-14 S	•	Bus/Load Management Priority	8	N	α	a
		Solid State Controller List Cross Reference	отт	150	ए र	271
	8	Transducer List Cross Reference	VN	98-98-98-98-98-98-98-98-98-98-98-98-98-9	98 98 98 98 98 98 98 98 98 98 98 98 98 9	9.56 9.56 9.56 9.56 9.56 9.56 9.56 9.56
	~	Boolean Equation	PDL 110	LA120 = 103068 + LAL107	1.M121 - 1.M2068 - 1.M13068 - 1.M1306	IM122 - IMS073 - MIS068 •IM109
	- -	Table Item	оп	750	เส	221

7	_		
FIGURE 3 SHEET 14	8	Equation Description & Motes	Angle of attack indicator 28 VDC - 28 VDC Eas. No. 2 Bus energized
21	7	Reference Drawings	IMSID FIG. 3
TABLE III P-14 SOSTEL BOCLEAN EQUATIONS	9	Special Considerations	E. R.
TABLE III P-14 8	•	Bus/Load Management Priority	a
	4	Solid State Controller List Cross Reference	123
	3	Transducer List Cross Reference	×
	8	Boolean Equation	701.123
	-	Table Item	123

PTOURE 4 SHEET 1	21	Associated Boolean Equations	Lo	820	620	030
710	1	Reference Drawings	IMSPD, F18. 4 Zone IA, 2A, 3A, 4A	IWSFD F1g. 4 Zone 3C	IWSFD F1g. 4 Zone 1C, 2C, 3C, 9C	JWSPD F1g. 4 Zone 10, 20, 30, 130
	9	Identifier Code	HALO27	HALO28	KM 029	KALD30
	6	Operational	O4Q31	20010	42010	06860
TABLE II F-14 SOLID STATE POFER CONTROLLERS AND DRIVERS	80	Conventional Devices Being Replaced	(35A1) R-AICS HTR	CB6 (5A) L-AICS HTR (35A1) (25A1) CB6 (7.5A) AML ATTK TOCA1 Temp. HTR (35A4)	CB3 (5A) L-AICS (35A6)	GB2 (5A) R-AIGS (35A6)
ID STATE POME	7	P.C. Location				
BE II P-14 SO	9	Load Power Dissipation				
А	•	Duty				
	,	Associated Loads	a) Right AICS Total Tempera- ture Probe (32A9) Heater b) Right AICS Angle of Attack Probe (81A4)	a) Left AICS Angle of Attack Probe (81A3) Heater b) Left AICS Total Temperature Probe (05A2)	Control Programmer (32A6) 115 VAC ØC	Right Air Inlet Control Programmer (FAT) 115 W.C f8
		Reting V & I	V = 115VAC	v = 115VAC MB I = 5A	V = 115VAC I-5A	I = 5A
	8	Type of Power Controller	AC - 1 Pole	AC - 1 Pole	AC - 1 Pole	AC - 1 Pole
	-	Table Item #	027	920	620	030

TODIC TODIC	80	Equation Description & Motes	Right ALCS Total Temperature Probe (32A9) Heater and the Right ALCS Angle of Attack Probe (81A4) Heater are on if the magine/Probe Anti-tce switch is in ORIDE or if in the Auto Position and Left or Right MLG veight is not on wheels	Left AICS Total Temperature Probe (05A2) Heater and the Left AICS Angle of Attack Probe (BLM3) Heater is on if the Bugine/Probe Anti-toe switch is in ONIDE or if in the Auto Position and Left or Right MG weight is not on wheels	Left Air Inlet Control Programmer 115 VAC \$6 is on the Hight wain AC PRR is on line or the Left Wain AC PRR is on line or the ground cooling pressure interlock switch is
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13 Conditioning Technique	Resistor Divider Adapter	External Signal Adapt (28 VDC Voltage Sens	Resistor Divider Adapter	Resistor Divider Adepter	Resistor Divider Adapter
12 Associated Boolean Equation	031 113 114 115 117	031 112 113	03 112 115	89 277 277	031 112 115
11 Reference Drawings	5 Zone 1A	1WSFD Fig. 5 Zone 5C	INSED FIG. 5 Zone 4C	INSPD F1g. 5 Zone 4C	5 Zone 4C
10 Operational Address	01P12	одро	01P13	41410	01P15
9 Conventional Switches Being Replaced or Deleted	N/A	N/A	N/A	м/м	N/A
Associated Loads	a) Throttle Control Com- puter (2A1) b) L. Horiz Stabilizer Pos. XMITR (6482) c) R. Horiz Stabilizer Pos. XMITR (6481)	Throttle Control Computer (21A1) (Auto GND INTLK Signal)	Throttle Control Computer (21A1) (Auto GND INTLK Signal)	Throttle Control Computer (21A1) (Auto GND INTLK Signal)	Throttle Control Computer (21A) GND INTIX Signal)
7 Present Signal Characteristics	Boost/Auto = 1159AC Manual = Open	Auto initiate = Throttle 28 VDC Computer (28 VDC (211) (28 VDC (211) (311) (No Friction = 26 VDC Friction = Open	Limit Switch Switched 28 VDC	Limit Switch Switched 20 VIC
fransducer Type	Pilots Toggle Boost/A	м/м	Limit Switch	Limit Switch	Limit Switch
Point of Origin	Pilots Left Side Console STA225	STA225	Pilots Left Side Console STA 225	Pilots Left Side Console STA225	Pilots Left Side Console STA225
Signal Source Box Identification	inlet Ramps/Eng. Crank/Throttle (710A1)	Throttie Control Computer (22A1) (Auto initiate signal)	P/O Throttle Quadrant (711A1) Friction Lock	P/O Throttle quadrant (711A1) Throttle Lever	P/O Throttle Quadrant (71M1) Throttle Lover
3 Identifier Code	4G017	4KS059	90598	463061	qusocz
Stgrai	Mrville work Gelth - Board Auto	Auto initiate (26 VDC)	No Friction	K. Throttle Lever - 8 LBS	Lever - 8 LBS
-11	ÿ	8	8	8	8

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TABLE I F-14 SCETEL SIGNAL THANSDUCERS

13 Conditioning Technique	Resistor Divider Adapter	Resistor Divider Adapter	Resistor Divider Adapter	Resistor Divider Adspter	Solid State	Solid State
12 Associated Boolean Equation	031 112 115	93 112 511	03 11,2 11,5	112 115 115	931 112 115	031 244 721 112 243 722 111 5 504 723 259 527 724 260 312 725 560 592 587 570 582 578 570 582 578 570 582 578
11 Reference Drawings	IWSFD Fig. 5 Zone 3C	1 WSFD Fig. 3 Zone 3C	3 Zone 3B	J Zone 3B	5 Zone 1C	5 Zone 1C
10 Operational Address	91410	71410	01P18	61410	œ ь 15	œы3
9 Conventional Switches Being Replaced or Deleted	И/А	N/A	N/A	N/A	12 Position Rotary with Push Test	12 Position Rotary vith Push Test
8 Associated Loads	Throttle Control Computer (21A1) (Engage Auto Signal)	Throttle Control Computer (21A1) (Engage Auto Signal)	Throttle Control Computer (21A1) (Engage Auto Signal)	Throttle Control Computer (21A1) (Engage Auto Signal)	APC Test K6 Relay (Left Glove Relay Box 773A1)	APC Test K6 Blow (Left Glove Relay Box 773A1)
Present Signal Characteriatica	6° < MIL = 28VIC MIL Limit = Open	6° > Idle = 28 VDC Idle Limit = Open	6° > ldle = 28 VDC ldle Limit = Open	6° < MIL = 28 VDC MIL Limit - Open	28 VDC Switched	28 YDC Switched
6 Trensducer Type	Limit Switch	Limit Switch	Limit Switch	Limit Switch	12 Position Rotary Switch with Momen- tary Push Button	12 Position Rotary with Push Test
5 Point of Origin	Pilots Left Side STA225	Pilots Left Side Console STA225	Pilots Left Side Console STA225	Pilots Left Side Console STA225	Pilots Right Side Console STA225	Pilots Right Side Console STA225
4 Signal Source Box Identification	MIL Limit Switch P/O Left Throttle Control Actuator (21A7)	idle Limit Switch P/O Left Throttle Control Actuator (21A7)	Idle Limit Switch P/O Hight Throttle Control Actuator (2147)	MIL Unit Switch P/O Right Throttle Control Actuator (21A7)	(734A1)	Master Test Punel (734A1)
3 Identifier Code	QKSO63	QKSOCA	903065	90000	M3067	M soce
2 Signal Name/Function	6° < MIL Left	6° > 1dle left	6° > Idle Right	6° < MIL flight	FLf Gear DN	Test Selector
Table Ites	8	\$	59	98	190	890
	2 3 4 5 6 7 8 80 Identification Origin Type Characteriatics Replaced or Deleted Address Drawings Drawings Replaced or Deleted Address Drawings Replaced or Deleter Deleted Address Drawings Replaced or Deleter Deleter Drawings Drawings Deleter Deleter Drawings Dr	Signal Identifier Signal Source Print of Transducer Present Signal Source Point of Transducer Signal Source Point of Transducer Present Signal Source Point of Transducer Signal Source Point of Transducer Signal Source Control Source Point of Transducer Signal Source Point of Transducer Signal Source Point of Transducer Signal Source Control Actuator Signal Source Point of Transducer Sourc	Signal Gode Box Identification Origin Type Characteriatics Loads Replaced or Deleted Solutions Box Identification Origin Type Characteriatics Loads Replaced or Deleted Solutions Deleted Replaced or Deleted Solutions Divide Replaced or Deleted Solutions Early Solutions STAZES Limit Solution Control Actuator STAZES Limit Solution Signal Solutions STAZES Control Actuator STAZES Limit Solution Computer Comput	Signal Good Good	Second S	Second S

SHEET 3	13 Conditioning Technique	Resistor Divider Adapter	Divider Adapter
PIGURE 5 SHEET 3	12 Associated Boolean Equation	n6 106	ñi N
	11 Reference Drawlings	IWSFD F1g. 5 Zone 3C	5 Zone 3C
	10 Operational Address	01P20	ones.
	9 Conventional Switches Being Replaced or Deleted	N/A	м/А
TRANSDUCERS	8 Associated Loads	Throttle Control Computer (21A1)	Throttle Control Computer (C1A1)
TABLE I P-14 SUSTEL SIGNAL TRANSDUCERS	7 Present Signal Characteristics	28 VDC Switched	28 VDC Switched
TABLE I P	6 Transducer Type	Limit Switch	Liait Saltch
	5 Point of Origin	Pilots Left Side Console STA225	Pilots Left Side Console STA225
	th Signal Source Box Identification	P/O Left Throttle Control Actuator (21A7)	P/O Hight Throttle Control Actuator (21A7)
	3 Identifier Code	690518	⊌ KSOTO
	2 Signal Name/Function	Left Torque Limit Not	Limit Not
	Table Item #	690	ou

PT CURE 5 SHEET 1	21	Associated Boolean Equations	ж о .	711	EII	ำ	şn	911
N.	п	Reference Drawings	1MSPD F1g. 5 Zone 1A, 3A, 3B, 5C, 9C	INSFD F1g. 5 Zone 2B, 5C	IWSFD Fig. 5 Zone 1B, 5B	IWSFD F16. 5 Zone 1B, 4A, 5C	IWSPD P1g. 5 Zone lB, 2B, 5C	INSFD Fig. 5 Zone lb, 39, C, 5C
	01	Identifier Code	180000	Q41.112	Q41.13	HILDO	STEDY.	911716
	6	Operational	0000 11009	04003	O4DO4	OkDOS	90400	Podpor
TABLE II F-14 SOLID STATE POWER CONTROLLERS AND DRIVERS		Conventional Devices Being Replaced	GBY (SA) Auto Throttle AC (3AS) Mode Switch - Auto/ Boost - Manual (P/0 Inlet Ramps/Fng. Crunk Throttle Control Funch 710A1)	MAG HICC KI Nelay APC Test K6 Nelay MAG Safety H K22 Nelay (Left Glove Nelay Box ??3A1)	CB45 (3A) 28 VDC - Auto Throt DC (36A4)	KZI MLG Safety E (Left Glove Relay Box 773A1)		
ID STATE POWE	7	P.C. Location						
ABLE II P-14 SO	•	Load Power Dissipation						
4	5	Duty						
		Associated Loads	a) Throttle Control Computer (21A1) Four Supply 115 WG ## 10 Left Herizontal Stabilizer Position Trunsmitter (6482) c) Right Horizontal (25abilizer Fosition Trunsmitter (6481)	Engage Auto (28 VDC) Throttle Control Computer (21A1)	Boost Enable (28 VDC Throttle Control Computer (21A1)	Throttle Control Computer (21A1) - WCM (28 VDC)	Auto Enable (28 VDC) Throttle Control Computer (21A1)	Auto Ground Inter- lock PO Throttle Control Computer Logic (21A1)
	•	Reting V & I	v = 115vac pA 1 = 5A	V = 28 VDC	V = 28 VDC	v = 28 VDC	v = 28 vDC	CMD or Open
	~	Type of Fower Controller	AC - 1 Pole	DC - 1 Pole (Possibly Solid State Enable Driver)	DC - 1 Pole (Possibly Solid State Enable Driver	DC - 1 Pole (Possibly Solid State Enable Driver)	DC - 1 Pole (Possibly Solid State Enable Driver)	GMD or Open (Solid State Driver)
	-	Table Item #	160	1112	113	ALII.	115	116

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MOUNTE 5 SHEET 1	80	Rquation Description & Notes	115 VAC pA to the Throttle Control Computer and the Left and Right Morizontal Stabilizer Position Transmitter = the Throttle Mode Switch in the Boost/Auto Position	Throttle Control Computer - Engage Auto 28 VDC = Auto Intitate and Throttle Lock-No Friction and Auto Intitate and Throttle Lock-No Friction and F. Throttle - 8 LBS and L Throttle - 8 LBS and Let or Right weight is on wheels and Master Test - First Cear No. 1s selected and Master Test - Test Selector is depressed and Depressed and MLD HD. 1s down and Left Throttle is at 6 < and 6 > 101e and Hight Throttle is at 6 < and 6 > 101e and Hight Throttle is at 60 > 101e and 60 ML.	Boost enable 28 VDC to Throttle Control Computer = the Throttle Mode Switch in the Boost/Auto Position	Throttle Control Computer WOW - the Throttle Wode Switch in the Boost/Auto Position and Left and Right MIG Weight is on wheels	Throttle Control Computer - Auto Enable (28 VIC) = (Throttle Meds Sation in Boost/Auto and Aut. Throttle initiate and Throttle Lock-No Friction and R. Throttle - 8 LBS and (Leff or Right word; and L. Throttle - 8 LBS and (Leff or Right is on wheels and Master Test - Fest Selector is depressed) and Wid HD. Is down and Left Throttle is at 60 - NIL and Master Test - Test Selector is depressed and Wester Test - Fest Selector is depressed and 60 - XIL and Right Throttle is at 60 - NIL and Self Throttle is at 60 - NIL and Get Right Throttle is at 60 - NIL and Self Throttle is at 60 - NIL and Left Throttle-Torque Limit not and Right Throttle-Torque Limit not.
21	7	Reference Drawings	IMSFD Fig. 5 Zone 1, 2, 3, i, 5C	1MSPD F16. 5 Zone 1, 2, 3, 4, 5, 5	IMSFD Fig. 5 Zone 1, 5C	IWSFD Fig. 5 Zone 1B, 2B, 4A, 5C	Zone 1B, 2B, 5C
TABLE III P-14 SOSTEL BOOLEAN EQUATIONS	9	Special Considerations	Left Main	APCS	AFCS	APCS	AP CS
TABLE III P-14 S	6	Bus/Load Management Priority	3	a	8	5	a
	а	Solid State Controller List Cross Reference	033		1113	111	ns
	9	Transducer List Cross Reference	710	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		002 102 017	3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
	8	Boolean Equation	QKLO31 = QKSO17	qRILIE - qRSQ59 - qRSQC - qRSQ	QKIII3 - QKSO17	QKL114 = QKS017 GDS002 • GDS102	4KL115 = (4KR017 e 4KR026 e 4K
	1	Table Item #	υχο	112	113	111	în î

FIGURE 5 SHEET 2	8	Equation Description & Notes	Auto Ground Interlock to Throttle Control Computer -
2	1	Reference Drawings	Jo, 5c, 2d, 2d, 2d, 2d, 2d, 2d, 2d, 2d, 2d, 2d
TABLE III F-14 SOSTEL BOOLEAN EQUATIONS	9	Special Considerations	APOS
TABLE 111 F-14 S	\$	Bus/Load Management Priority	Q
	•	Solid State Controller List Cross Reference	911
	6	Transducer List Cross Reference	900
	(N	Boolean Equation	943070 • 943069 •
	-	Table Item	911

	_														
TOOLS OUT TO	12	Associated Boolean Equations	æo	033	₹60 .			035			930			#	
	п	Reference Drawings	IMSFD Fig. 6 Zone 1B, 100	IWSFD Fig. 6 Zone 1B, 10C	IMSFD F1g. 6 Zone 1B, 13C, 17C			IWSFD Fig. 6 Zone 1C, 13C, 17C			IMSFD F1g. 6 Zone 1C, 13C, 17C			IMSFD F1g. 6 Zone 1C, 10B, IMSFD A6.3	Zone 4A
	or	Identifier Code	Æonoð	gc1033	₩503₩			SE07183			EB1036			KITIN	
	6	Operational	05 0 37	05438	09403			09404 10403			1000			05439	
DOLE AL CASA SOLID SINIE INTER COLUMNICA AND DELICES.	80	Conventional Devices Being Replaced	CB16 (3A) R Puel Contr/ Mach LVR (35A6)	CB18 (3A) L Puel Contr/ Mach LVR (35A6)	CB19 (5A) R PH A Test/ Gas Temp LIM (35A1)			CB17 (5A) R PH B Test/ Gas Temp LIM (35A1)			CB13 (5A) R PH C Test/ Gas Temp LIM (35A1)			Same as CB32 GND Test/ Mach Lever Bit of Fig.	
and alone or	7	P.C. Location													
No 57-1 17 370	•	Load Power Dissipation													
1	٠	Duty Cycle	\$ 001	100%	1000	100%		100	100\$		100	100		100%	
	4	Associated Loads	Mach Lever Control Unit (46A1) Power Supply #1	Mach Lever Control Unit (46A1) Power Supply #2	a) Right Engine Turbine Temperature Limiter	b) Left Engine furbine Temperature Limiter	c) See NAVAIR 01- F-14AAA-2-2-9	a) Right Engine Turbine Temperature Limiter	b) Left Engine Turbine Temperature Limiter	c) See NAVAIR 01- F-14AAA-2-2-9	a) kight Engine Turbine Temperature Limiter	b) Left Engine Turbine Temperature Limiter	c) See NAVAIR 01- F-14AAA-2-2-9	Mach Lever Control Unit (46A1) - Mach Lever Test 28 VDC	
		Reting V & I	v - 115vac (18) 1 - 3 Amp	v = 115vac øc I = 3 A	v - 115vac 24 1 - 5 Amp			v - 115vAC pB 1 = 5A			v = 115vac øc 1 = 5A			V = 28 VDC	
	~	Type of Power Controller	AC - 1 Pole	AC - 1 Pole	AC - 1 Pole			AC - 1 Pole			AC - 1 Pole			DC - 1 Pole	
	-	Table Item #	æ	033	460			035			960			1	

MOUNE SHOET	80	Rquation Description & Notes	Much Lever Control Unit 115VAC ØB Power Supply #1 is = 115VAC ØB essential #2 Bus energized	Much Lever Control Unit 1159AC &C Power Supply #2 is - 1159AC &C essential #2 Bus energized	Right and Left Engine Turbine Temperature Limiter 115 VAC ØA is = 115VAC ØA Right Main Bus energized	Right and Left Engine Turbine Temperature Limiter 1159AC Ø6 is = 115 VAC Ø6 Right Main Bus energized	Right and Left Engine Turbine Temperature Limiter 115VAC ØC is = 115VAC ØC Right Main Bus energized	Mach Lever Test 28VDC = 28VDC Right Main Bus energized.	
	7	Reference Drawings	INSFD F1g. 6 Zone 1B, 100	IWSFD Fig. 6 Zone 1B, 100	IMSFD Fig. 6 Zone 1B, 13C, 17C	IMSFD Fig. 6 Zone 1C, 13C, 17C	IMSFD F1g. 6 Zone 1C, 13C, 17C	IWSFD Fig. 6 Zone 1C, 108	
TABLE III F-14 SOSTEL BOLLEAN BOUATIONS	9	Special Considerations	Ess. No. 2 Bus	Ess. No. 2 Bus	R. Main Bus	R. Main Bus	R. Main Bus	R. Main Bus	
TABLE 111 F-14 :	۰	Bus/Load Management Priority	5	8		E .	£	3	
		Solid State Controller List Cross Reference	930	033	460	035	960	ш	
	5	Transducer List Cross Reference	N/A	N/A	N/A	N/A	N/A	N/A	
	~	Boolean Equation	4c1o32	ecto33	#EOTER	द्धनासः	3E018F	MULIII	
	-	Table Item #	250	633	460	935	960	п	

SHEET 1	13 Conditioning Technique	External Signal Adapter	External Signal Adapter
PICURE 7 SHEET 1	12 Associated Boolean Equation	751	155
	11 Reference Drawings	IWSFD FIG. 7 Zone 5	T Zone 5
	10 Operational Address	отвое	отвоз
	9 Conventional Switches Being Replaced or Deleted	N/A	N/A
TRANSDUCERS	8 Associated Loads	Beacon - Receiver Transmitter (19A1)	Attalerre (1944)
TABLE I F-14 SOSTEL SIGNAL TRANSDUCERS	7 Present Signal Characteristics	Off = Open Beacon - On/STUBY = 28VDC Receiver Transmitt (19A1)	ACIS = 28 VIC ĀCIS = Open
TABLE 1 F	6 Transducer Type	DPIT Toggle Switch	Switch
	5 Point of Origin	NFO'S Right Side Console STA300	Right Side Console STA 300
	Signal Source Box Identification	Radar Beacon Con- trol Panel (1942)	Control Panel (1942)
	3 Identifier Code	115074	TPS075
	2 Signal Name/Function	Kadar Beacon - Off	ACLS Selected
	Table Ite	420	0775

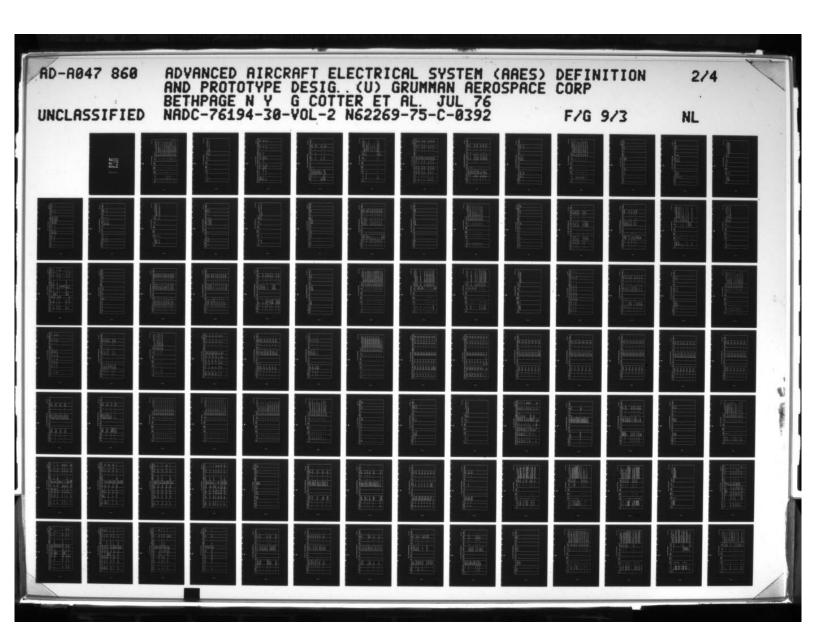
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PIGURE SHEET	12	Associated Boolean Equations	037	960	. 680	070	124	521
Ĭ	п	Reference Drevings	INSFD Fig. 7 Zone 1C, 2C	IWSFD F1g. 7 Zone 1C, 2C	IWSFD Fig. 7 Zone 1C, 2C	IWSFD Fig. 7 Zone 1C, 2C	IMSPD Fig. 7 Zone lC, 5, 7A	IWSFD F1g. 7 Zone 10, 5, BC
	10	Identifier Code	RALO37	RALO38	RAL039	RALO40	TPLI24	TPLL25
	6	Operational	01647	01048	64810	O4 TR29	51010	66.69
TABLE II F-14, SCLID STATE POFER CONTROLLERS AND DRIVERS		Conventional Devices Being Replaced	CB26 (3A) ILS ARA-63 PHA (35A2)	CB29 (3A) ILS ARA-63 (BE (35A4)	CB30 (3A) ILS ARA-63 ØC (35A4)	CB47 (3A) ILS ARA-63 DC (36A21)	CB21 (3A) APN-154 (36A21)	124.)
ID STATE FORE	1	P.C. Location						
DS 41-4 II 218	9	Load Power Dissipation						
A	•	Duty Cycle	100\$	100%	100\$	1000		
	•	Associated Loads	11.5 Decoder (86A2)	ILS Decoder (86A2)	ILS Decoder (86A2)	ILS Decoder (86A2)	Beacon Receiver - Transmitter (19Al)	(19Ak)
		Pating V & I	v - 115vac pa 1 - 3A	v - 115vac AB 1 - 3A	v - 115vac gc I - 3A	v = 28vDC I = 3A	v = 28VDC I = 3 A	V = 28VDC
	~	Type of Power Controller	AC - 1 Pole	AC - 1 Pole	AC - 1 Pole	DC - 1 Pole	DC - 1 Pole	DC - 1 Pole
	-	Teble Item	<i>1</i> £0	980	039	9	124	125

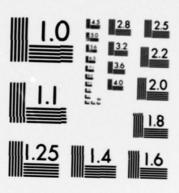
-1	_									
FIGURE 7 SHOOT 1		Equation Description & Motes	* ILS Decoder 115VAC dA is = 115VAC dA Essential # 2 Bus energized	* ILS Decoder 115VAC ØB is = 115VAC ØB Essential #2 Bus energized	* ILS Decoder 115VAC ØC 1s = 115VAC ØC Essential #2 Bus energized	* ILS Decoder 28VDC 1s = 28VDC Essential #2 Bus energized	* Could Be 4 Pole SSPC	Beacon Receiver - Transmitter 28VDC = Radar Beacon Control Panel PWR Switch not in the Off Position	Beacon Auguenter 28VDC = Radar Beacon Control Panel PAR Switch not in the Off Position and ACLS selected	
21	1	Reference Drawings	IMSFD Fig. 7 Zone 1C, 2C	IMSFD F1g. 7 Zone 1C, 2C	IMSFD F1g. 7 Zone 1C, 2C	IMSFD Fig. 7 Zone 1C, 2C		IWSFD F1g. 7 Zone 1C, 5, 7A	IWSFD Fig. 7 Zone 1C, 5, 8C	
TABLE III P-14 SOSTEL BOCLEAN BOLATIONS	9	Special Considerations	Ess. No. 2 Bus	Ess. No. 2 Bus	Ess. No. 2 Bus	Ess. No. 2 Bus		Ess. No. 2 Bus	Ess. No. 2 Bus	
TABLE III P-14	•	Bus/Load Management Priority	2	8	CV.	8		CV.	Q	
	•	Solid State Controller List Cross Reference	037	980	039	040		124	125	
	e	Transducer List Cross Reference	N/A	N/A	N/A	N/A		7400	974 975	
	8	Boolean Equation	KALO37	RAL 038	RALO39	RALOHO		TPLI24 = TPSOTA	TPL125 = TPS074 • TPS075	
	-	Table Item #	037	960	650	95		124	521	

MOURE 8 SHEET 1	13 Conditioning Technique	Solid State	Solid State	Solid State	Solid State
MOUR 8	12 Associated Boolean Equation	740	840	676	86
	11 Reference Drawings	IMSFD F1g. 8 Zone 21A	IWSFD F1g. 8 Zone 21A	INSFD F16. 8 Zone 21A	8 Zone 21A
	10 Operational Address	04,702	очьоз	OLPOA	od-Po-S
	9 Conventional Switches Being Replaced or Deleted	DPTT Rotary Switch	Same as (above)	SPUT Toggle Switch	Push Button Momentary
TRANSDUCERS	8 Associated Loads	Crytographic Unit (12A1) 28V Power	Crytographic Unit (12Al) Relay Con- trol	Crytographic Unit (12A1) Plain/Cipher Control	Crytographic Parol 1 (2A1) Parol 2 (2A1) Zerol 2 (2A1) trol
TABLE I P-14 SOSTEL SIGNAL TRANSDUCERS	7 Present Signal Characteristics	on = 28 Off = Open	Relay = GND Relay = Open	Plain = 28VDC Cipher = GND	Zeroize - Open
TABLE I	6 Transducer Type	3-Position Rotary Switch	3-Position Rotary Switch	SPOT Toggle Switch	Fush Button
	5 Point of Origin	NFO Right Side Con- sole STA 300	NFO Right Side Con- sole STA 300	NFO Right Side Con- sole STA 300	NFO Right Side Con- Side STA 300
	ly Signal Source Box Identification	KY-28 Control Panel (12A2)	KY-28 Control Panel (12A2)	KY-28 Control Panel (12A2)	MX-28 Control Panel (12A2)
	3 Identifier Code	RPSOOB	RPS009	RPS010	KPS011
	2 Signel Name/Function	Cryptographic Unit - On	Cryptographic Unit - Relay	Cryptographic Unit - Plain	Cryptographic Unit - Zeroize
	Table Item #	900	600	010	TO T

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PICURE 8 SHEET 1	75	Associated Boolean Equations	041	₹ .	3	Q44 Q45	99	47	940
Ĕ	п	Reference Drevings	IMSFD Fig. 8 Zone lA, llC, 238	1MSFD F1g. 8 Zone 1A, 9C, 10C, 12C	lwsrp Fig. 8 Zone lA, 7C, los	INSFD F18. 8 1A, 14c INSFD F18. 8 Zone 1A, 15B	IMSFD F1g. 8 Zone 1B, 19B, 21B	INSFD Fig. 8 Zone 22A, B	INSFD F1g. 8 Zone 22A, B
	01	Identifier Code	RULO41	RUIO42	RJLO43	KZLO44	RDLO46	RPLO47	RPLO448
	6	Operational	04932	Okq33	GEN23	60860	01450	04634	06001
TABLE II P-14 SOLID STATE FORER CONTROLLERS AND DRIVERS	80	Conventional Devices Being Replaced	СВ13 (7.5A) ИВУ СОВИ АИТ (36A1)	(36A1)	CB27 (5A) 11/758 (36A1)	CB1 (3A) Pilot ICS (36A1) CB2 (3A) NFO ICS (36A1)	CB28 (3A) ARA-50/ARR- 69 (36A2)	CB29 (5A) Juliet 28 (36A2)	See Table 1 Item 009
ID STATE POWER	1	P.C. Location							
BLE II P-14 SO	•	Load Power Dissipation						1.2 Amp	
a	2	Duty	\$001 \$001	100f 100f 100f	1004	100%	100%		
	4	Associated Loads	1) Main UHF Antenne Switch (1581) 2) Main UHF Receiver-Transmitter (1583)	1) Main UHF Anten- na Selector (1544) 2) Filot Comm/MAV CMU Panel (721A1) 3) Cockpit Relay Box (757A1)	1) NFO UHF Remote Indicator (1546) 2) Pilot UHF Ne- mote Indicator (1545)	Pilot ICS Control Panel (OBAl) NFO ICS Control Panel (OBA2)	1) Amplifier - Relw Assembly (OAA) 2) UHF Auxiliary Receiver (16A1)	Crytographic Unit (12A1) On/Off Con- trol	Grytographic Unit (12A1) (Kelay Con- trol)
	8	Reting V & I	v = 28VDC I = 7.5A	v = 28vDC 1 - 34	V = 28VDC I = 5A	v = 28vbc I = 3A v = 28vbc I = 3A		V = 28VIC I = 5 Amp	GND or Open
	ď	Type of Power Controller	DC - 1 Pole	2	3	8 8	8	DC - 1 Pole	Solid State Enable Sig- nal Driver
	-	Table Item #	043	Q4.2	643	440 240	35	047	840

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-	य	Associated Boolean Equations	640	050	150	052	053	450	955	
	n	Reference Drawings	IMSFD Fig. 8 Zone 22A, B	IWSFD Fig. 8 Zone 22A, B	INSFD Fig. 8 Zone 1B, 23B	IMSPD Fig. 8 Zone 1B, 23B	IMSFD F1g. 8 Zone 1B, 23B	IMSFD F1g. 8 Zone 1C, 19B	IWSFD Fig. 8 Zone 1C, 17B,	%
	10	Identifier Code	RPLO49	RPLO50	RULOSI	RU1.052	RULO53	HULOSA	RULO55	
	6	Operational	06002	04435	04436	04437	04438	01452	03433	
	8	Conventional Devices Being Replaced	See Table 1 1tem 010	See Table 1 1tem 011	(35A3)	CB8 (3A) URF COMM ØB (35A3)	СВ5 (3A) ИНР СОНИ ФС (35A3)	CB6(34) AN/ARA - 50 (35A2)	CB2 (3A) AN/ARA - 48 ANT (35A4)	
	7	P.C. Location								
	9	Load Power Dissipation	250 NA Indictive	0.6 MA						
•	2	Duty Cycle			100%	1004	1008	1001	1000	100%
		Associated Loads	Crytographic Unit (12A1) (Plain/Cipher Select)	Crytographic Unit (12A1) (Zeroize)	Main UHF Receiver - Transmitter (15A3)	Main UHF Receiver - Transmitter (15A3)	Main UMF Receiver - Transmitter (15A3)	Amplifier - Relay Assembly (O4A1)	1) UHF/ADF Antenna (04E1)	2) CSDC (07A1)
		Pating V & I	28VDC or GND	28VDC Momentary or GND	v = 115vac ph I = 3A	V = 115VAC I = 3A	v - 115vac pc 1 - 3A	V = 115VAC I = 3A	V = 26VAC I = 3A	
	ď	Type of Power Controller	Solid State Relay Driver Signal	Solid State Enable Signal P	AC - 1 Pole Could be 3 Pole See 052 and 053	AC - 1 Pole See Item 051	AC - 1 Pole See Item 051	AC - 1 Pole	AC - 1 Pole	
	7	Table Ites (640	050	150	052	953	450	950	





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

- 1																
MOUNE B SHORT I	•	Mpation Description & Notes	Main UNF Antenna Switch and Receiver - Transmitter 28 VDC is - 28VDC Essential Bus #1 energized	Main URF Antenna Selector, and Pilot COM/MAN CHO Panel, and Cockpit Relay Box, 26VIC - 26VIC Ess. Bas fl energised	NPO & PILOTS UND Remote Indicator 28VIC - 28VIC Ess. Bus #1 energized	Pilot ICS Centrol Panel 28VIC - 28VIC Ess. Bus #1.	NFO ICS Control Panel 289EC - 289EC Ess. Bus #1.	ANF Amplifter Nolay Assembly and UNF Auxiliary Receiver 2040C - 2040C Ess. Bus #2 energized	Crytographic Unit is Fowered On if On or Relay Control Panel Switch Positions are selected	Crytographic Unit is enabled if helay Position is selected on the Control Pasel	Crytographic Unit Plan Nobe is enabled if Plain Fosition is selected on the Control Panel	Crytographic Unit Zeroise is enabled Momentarily if Zeroise Push Button is depressed on the Control Parel	Main UND Receiver - Transmitter 1159RC (A = 1159RC (A essential Bus f) energized	Main 1887 Receiver - Transmitter 115VAC 56 - 115VAC 56 essential bus \$1 energized	Main 1807 Receiver - Transmitter 11598C \$C = 11598C \$C essential Bus \$L energized	
21	1	Reference Drewings	IMSPD F1g. 8 Zone 1A, 11C, 236	Lient Fig. 8 Zone 14, 95, 100, 12	108FD F1g. 8 Zone 1A, 7C, 10A	Zone 1A, 14c	IMSPD F1g. 8 Zone 1A, 158	IMSPD F1g. 8 Zone 18, 198, 208	IMBFD F1g. 8 Zone 21A, 22A	IMSPD F1g. 8 Zone 21A, 22A	IMSFD F1g. 8 Zone 21A, 22A	Light Fig. 8 Zone 21A, 22A	IMBFD F1g. 8 Zone 235	INSPD F14. 8 ZONE 238	INSTD F16. 8 Zone 238	
TABLE III P-14 SOSTEL BOOLEAN BOUNTIONS	•	Special Considerations	Ess. No. 1 Bus	Ess. No. 1 Bus	Ess. No. 1 Bus	Ess. No. 1 Bus	Ess. No. 1 Bus	Ess. No. 2 Bus	Ess. No. 2 Bus	Ess. No. 2 Bus	Ess. No. 2 Bus	a) Momentary b) Ess. No. 2 Bus	Ess. No. 1 Bus	Ess. No. 1 Bus	Eas. No. 1 Bus	
11 F-14	•	Bus/Load Management Priority	1	1	•	-		œ	2	8	8	ov.	1	1	-	
		Solid State Controller List Cross Reference	Q+1	942	£	46	965	ž	740	OAB	640	050	160	9%	933	
	9	Transducer List Cross Reference	N/A	N/A	N/A	N/A	٧/١	ч/н	90.60	600	010	по	N/A	N/A	N/N	
	cu.	Boolean Equation	P.J.O41	RULOA2	RULO43	RZLO44	RZLO45	RDLOH6	RPLO47 = KPS008 + RPS009	RPLONB - RFS009	RPLO49 - RPSO10	RPLO50 = RPS011	RULO51	KULO53	RULO53	
		Pbl.	140	2 5	£ 3	Oth	QF 2	98	740	97	640	050	051	052	053	

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MONE 8 SHEET 2	•	Myustion Description & Notes	Ampliffer-Relay Assembly 115VAC = 115VAC Ess. Bus #2 energized	UND/ADP Antenna and CSDC 26VAC = 26VAC NAV Bus energized	
21		Brevings	INSPD F16. 8 Zone 1C, 198	14SFD F1g. 8 Zone 1C, 17B, 198	
TABLE III P-14 SOSTEL BOLLEAN BRUATIONS	9	Special Considerations	Ess. No. 2 Bus	NAV Bus	
TABLE 111 P-14 S	•	Bus/Load Management Priority	2	N.	
	,	Solid State Controller List Cross Reference	450	922	
		Transducer List Cross Reference	N/A	N/A	
	~	Boolean Equation	RULOSA	RULOSS	
	-	Pable Iten	450	\$50	

SHOET 1	13 Conditioning Technique	External Signal Adapter	Resistor Divided Adapter	External Signal Adapter
FIGURE 9 SHEET 1	Massisted Boolean Equation	750	8	8
	11 Reference Drewfage	INSPOPILE.	1 kSPD F1g. 9 Zone 18	9 Zone 1C
	10 Operational Address	отрой	93805	99060
	9 Conventional Switches Being Replaced or Deleted	K52 Computer Relay Right Glove Box	Pilot Ejection Switch (0982)	
TRANSDUCERS	8 Associated Loads	K52 Computer Relay Kight Glove Box	Kiji kelay Zeroize Ki Left Glove Kelay Box	(Loas)
TABLE I F-14 SCOTTL SIGNAL TRANSDUCERS	Present Signal Characteristics	28VDC/Open	Normal - Open K39 Relay Eject - 28VIC Zeroize #2 Left Glove Relay Box	
TABLE	fransducer Type	28VDC Senaing Circuit	Squib Actuated Switch	porder Discrete
	Point of Origin	Starboard Side STA 325	-	STA 345
	Man Source Box Identification	АМ/АМ39	Pilot Ejection Pilota Switch (0982) Left Vertica Console STA225	ponder
	3 Identifier Code	UCS012	MFSO13	SESOLA
	81gnel Mame/Punction	1FF Enable (26VDC From AN) AMS9 to Com- puter K52 Right Glove Relay Box)	Pilot Ejection Switch - Nor- mal	Zeroise
	- 11	012	£ 10	10

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PICUR 9 SHEET	21	Associated Boolean Equations	960	16 .		96	66
ř	=	Beforesce Drewings	IMSPD F16. 9 Zone 34, 26, 134	IMSPD P16. 9 Zone 1A, 39, 30, 48, 70, 39, 138		IMSPD FIG. 9 Zone 1B, 1C, 2C, 78	INSTO FIG. 9 The section of the sect
	91	Identifier Code	960TMS	SKLO57		sktorys	6607170
	6	Operational	12010	Octob O1453		04039	oggo
TABLE II F-14 SOLID STATE FORER CONTROLLERS AND DRIVERS		Conventional Devices Saing Replaced	CBB (3A) IFF A/A AC (35A5)	Cheo (3A) IPF A/A IC (36A)		(36A) APX 72 DC	CDS (SA) MLD Handle RLY No. 1 (SGA2)
ID STATE FORE	7	P.C. Location					
DE 11 F-14 80	•	load Poer Dissipation					
4	•	Duty Cycle	100%				
		Associated Loads	1) interrogator Switch-Amplifier (10A3)	mitter (10A1) 1) Interrogator Switch Amplifier (10A3) 2) AMI Control Panel (10A4)	3) Interrogator Synchronizer (10A2) 4) Interrogator Receiver - Trans- mitter (10A1)	Interrogator Com- puter (10A5)	a) ifF interrogator b) Cypto Computer (Oggs) (MLI Handle interlock)
		Pating V b I	" - 115vac fc I - 34	V = 28vbc I = 34			GND - Dwn GND - Dwn Open - Up
	~	Type of Power Controller	AC - 1 Pole	DC - 1 Pole		Solid State Mode 4 Code Zeroize Generator Sig. Char.	Solid State Emble Signal (Min Handle Interlock)
	-	1	8	150		950	660

1									_								
MOUNTE 9 SHOET 1	•	Myustion Description & Notes	Interrogator Switch Amplifier and Interrogator Receiver 115VAC ØC = 115VAC ØC Left Main Bus energized		 Interrogator Schnchronizer (10A2) Interrogator Receiver - Transmitter (10A1) 	h	(Right Main Generator is On Line	ŧI	Left Main Generator is On Line	51	Ground Cooling Pressure Switch is High)	IFF EMBLE	Mode & Core Zeroize = Pilot Ejection Switch Normal and Wode & Code Zeroize Signal	1PF Interrogator and Cypto Computer MG Handle Interlock = Landing Gear Handle Down			
21		Reference Drewings	Lused Fig. 9 Zone 1A, 35, 13A	INSFD F1g. 9 Zone 1, 2									MSPD F1g. 9 Lone 1C, 2C, 78	Lone 1C, 2C, 78	LESTO FIG. 10 Zone 3C, 11C		
TABLE III P-14 SOSTEL BOLLEAN BRIATIONS	9	Special	Left Main Bus	Left Main Bus									Ess. No. 1 Bus	Ess. No. 2 Bus			
TABLE 111 P-14 (•	Bus/Load Management Priority	۴ .	•									7	N			
		Solid State Controller List Cross Reference	950	150									950	650			
	9	Transducer List Cross Reference	V/H	000 000 000 000 000 000 000 000 000 00									013	052			
	2	Boolean Equation	9501Х5	XXSOO4 + HNSOO5)*UCSO12									SXLO58 = MPSO13 •	GJL059 - GIBU52			
	7	Table Item #	960	150									956	650			

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Signal Good December Signal December Signal December Signal December	SHEET	13 Conditioning Technique	External Signal Adapter	External Signal Adapter	External Signal Adapter	External Signal Adapter	External Signal Adapter	External Signal Adapter	External Signal Adapter
Signal Gode 1 - Enable Signal Bource Point of Tracebors	MONE TO	Associated Boolean Equation	3 8	257		%	8	904	Ton
Signal Golde Desire Signal Golde Desire Creation Creation Code Desire Code Desire Code Cod		11 Reference Drawings	THEFT FIG. 10 Zone BC	INSPD FIG. 10 Zone BA	INSPD FIG. 10 Zone Bb	luspp Pig. 10 Zone Sp	INSPD FIG. 10 Zone BA	INSPD FIG.	AO Zone BA
Signal Identifier Signal Source Point of Transdeer Present Signal Associated Associated		10 Operational Address	отро	90000	Todro	orpo	60000	одрго	07011
Signal Gode Signal Succe Signal Source Signal Source Signal Source Fold of Transdeer Present Signal Fold of Transdeer Signal Fold of Transd		9 Conventional Switches Being Replaced or Deleted	м/А	٧/٨	۸/۸	и/ч	v/x	ν/к	v/x
Signal Gode Signal Jource Signal Source Signal Source Fold of Transducer Freed Signal Signal Freed Signal Free	INVESTOR	8 Associated Loads	Transponder Receiver Transmitter (OMZ)	a) CSDC (G/A1) b) Trans- ponder Re- ceiver Trans- mitter (09A2)	Transponder Receiver Transmitter (09A2)	a) CSIC (07A1) b) Trans- ponder Re- ceiver Transmitter (09A2)	Transponder Receiver Transmitter (09A2)	Transponder Receiver Transmitter (OM2)	Transponder Receiver Transmitter (OAE)
Signal Source Point of Tresponding Source Road Identification Crigin Code Road Identification Crigin Crigin (Crigid) (Mode 1 - Emable SXS282 IFF Control Punel Right Control Famel Right Code 2 - Emable SXS283 IFF Control Punel Right Code 2 Right (Cright) (Mode 2 acide FS 300 Right (Cright) (Mode 3 acide FS 300 Right Code Cright) (Mode 3 acide FS 300 Right Code Cright) (Mode 3 acide FS 300 Right Code Cright) (Mode 3 acide FS 300 Right Code Code Road) (Cright) (Mode 3 acide FS 300 Right Code Code Road) (Cright) (Mode 3 acide FS 300 Right Code Code Road) (Cright) (Mode 3 acide FS 300 Right Code Code Road) (Cright) (Mode 3 acide FS 300 Right Code Code Road) (Cright) (Mode 3 acide FS 300 Right Code Code Road) (Cright) (Mode 3 acide FS 300 Right Code Code Code Road) (Cright) (Mode 3 acide FS 300 Right Code Code Code Road) (Cright) (Mode 3 acide FS 300 Right Code Code Code Road) (Cright) (Mode 3 acide FS 300 Right Code Code Code Code Road) (Cright) (Mode 3 acide FS 300 Right Code Code Code Road) (Cright) (Mode 3 acide FS 300 Right Code Code Code Road) (Cright) (Mode 3 acide FS 300 Right Code Code Code Code Road) (Cright) (Mode 3 acide FS 300 Right Code Code Code Code Code Code Code Code	THE PROPERTY OF	7 Present Signal Characteristics	GND - Enable Open - Disable			GND = Enable Open = Disable	GND = Normal Open = Low		9
Signal dentifier Signal Source Mame/Panction Code Box Identification Mode 1 - Enable SK3282 IFF Control Panel Enable GRD Mode 2 - Enable SK3284 IFF Control Panel Enable GRD E	TABLE	6 Trensducer Type	N/N	A/A	N/A	N/A	N/N	N/A	N/A
Signal dentifier Signal Source Mame/Panction Code Box Identification Kode 1 - Enable SK3282 IFF Control Panel SK3282 IFF Control Panel Enable GRD) Mode 2 - Enable SK3284 IFF Control Panel Enable GRD) Mode 34 - En - SK3284 IFF Control Panel GRD) Rode 2 - Enable SK3284 IFF Control Panel GRD) Rode 34 - En - SK3285 IFF Control Panel GOMIO SK3285 IFF Control Panel COMITOL OPET - Control Panel COMITOL OPET - CONTROL Panel COMITOL OPET - CONTROL Panel (GA1) Standby Enable (GA1) Standby Enable GOMITOL Panel (GA1) Standby GOMITOL Panel (GA1) Standby CONTROL - Enable (GA1) Standby CONTROL - Enable (GA1)		5 Point of Origin	NFO Right Side Con- sole FS300	MFO Right Side Con- sole FS300	NFO Right Side Con- sole PS300	NPO Right Side Con- sole P3300	NFO Right Side Con- sole FS300	NFO Right Side Con- sole F3300	MPU Right Side Con- sole PS300
Signal Identifier Code Mode 1 - Enable SESCH Mode 2 - Enable SESCH Mode 3 - En SESCH Mode 5 - Enable Standby Con- trol - Oper- ating FWR Relay Con- trol - Enable trol - Enable		Signal Source Box Identification				7	(O9Al) Sensitivity Control)		trol Panel
		3 Identifier Code	SXS282	sxsz63		3XS285	8x8286	SXS267	SXS286
		2 Signel Neme/Punction	Mode 1 - Enable	Manual 1FF - Emergency - Enable	Mode 2 - Enable	Mode 3A - En- able	Sensitivity Control - Normal	Standby Con- trol - Oper- ating	PWR Relay Con- trol - Enable
26 26 26 26 26 26 26 26 26 26 26 26 26 2		Table Ita	282	285	4 5	6 8	8	287	5648

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21	Associated Boolean Equations	98	₹ .	¥	Tr.	98.	9.	8
a	he ference Drawings	DESTD F18. 10 Zone 18, 220	IMSTO FIG. 10	INSPD F1g. 10 Zone 22B, 6B 3C, 10	1MSPD F16. 10 Zone 229, 11A SA, 3C, 1C	IMSPD F14. 10 Zone Bb, 22b, 3c, 1c	1 WSFD F14. 10 Zone 228, 88 90, 10	IMSPD F16. 10 Zone 22B, BA 3C, 1C
or	Identifier Code	оэотия	SKLOOL	SKLyke	Relation	SK CITE	8tt.398	ML399
•	Operational	45010	00005 01455	Okayo	Okask Okasu	of the party of th	Okne5 Okn33	Oktyk
	Conventional Devices Being Replaced	CB1 (3A) APX-72 AC (35A3)	CD6 (3A) AFX-72 Test Set (3GAk)	266 (3A) AFK-72 DC(5631) P/0 K39 Zerolze No. 2 (Right Glove Relay Box 772A1)	CBG (3A) AFR-72 DC (3GA1) P/O K39 Zeroize No. 2 (Hight Glove Relay Eox 772A1)	CB6 (3A) APX-72 DC (36A1) P/O K38 Zerolze No. 1 (Left Glove Relay Box 773A1)	GB6 (3A) AFX-72 DC (3631) P/O K39 Zeroire No. 1 (Left Glove Belay Box 77331)	CBC(34) AFX-T2 DC (3641) P/O K36 Zerolze No. 1 (Left Glove Rolsy Box 77341)
1	P.C. Location			*	*	*	٧/	\$
•	Load Power Dissipation							
•	Duty	100\$	1005					
	Associated Loads	Transponder Re- ceiver Transmitter (09A2)	1) Transponder Test Set (09A3) 2) ADC Switching Unit (20A4) 3) IFF Control Panel (09A1)	Transponder - Re- ceiver Transmitter (09A2) (Mode 1 Enable GMD)	a) CSDC (OTA1) b) Transponder Receiver - Trans- mitter (OSA2) (IFF Emergency Con- trol)	Transponder Receiver Transmitter (09A2)	a) CSDC (07A1) b) Transponder Receiver Trans- mitter (09A2)	Transponder Receiver Transmitter (09A2)
6	Pating V & I	V - 115VAC FB I - 3A	v - 28vdc I - 3A	GND - Enable Open - Disable	GMD - Enable Open - Disable	GND - Enable Open - Disable	GND = Enable Open = Disable	
o,	Type of Power Controller	AC - 1 Pole	DC - 1 Pole	Enable Driver	Enable Driver	Enable Driver	Enable Driver	Enable Driver GND Normal
-	The C	090	78	284	23.1	5,58	98	£
	1 1 0 6 1 8 1 7 1 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 3 th 5 6 7 8 9 10 11 Type of Puer Rating Associated Loads Oyels Dissipation Location Eming Emplaced Address Code Designation Code Designatio	1	Type of Photo Ph	Type of	1	Type of 1	1

	_			
PLOURE 10 SHORT 2	a	Associated Boolean Equations	99	,
ŭ	a	Reference Drewings	1WSPD F1g. 10 Zone 22B, 54, 30, 10	liesto Fig. 22C
	Identifier Code SKLACO			тур
	6	Operational	Okb35	95010
TABLE II F-14 SOLID STATE FORER CONTROLLESS AND DRIVERS		Conventional Devices Being Replaced	CB6 (3A) AFK-72 DC (36A1) P/O K38 Zeroize No. 1 (Left Glove Relay Box 773A1)	(36A1) (36A1)
JD STATE PORE	1	P.C. Location	м/А	
NR II 1-14 80	9	Load Power Dissipation		
А	•	Duty Cycle		100\$
		Associated Loads	Transponder Receiver Trans- mitter (09A2)	Transponder Receiver Transmitter (OyA2)
		Meting V & I		v = 28VDC
	œ.	Power Controller	Enable Driver GND - Operating Open - Standby	DC - 1 Pole
	-	Table Item	004	TON

1	_												
FIGUR 10 SHOPT 1		Rquation Description & Motes	Transponder Receiver - Transmitter 1159AC & - 1159AC & essential #1 Bus energized	20VIC is applied to the fransponder Test Set and ALC Switching but and IFF Control Panel if the 20VIC Left Main Bus is energized	Transponder Receiver Transmitter - Mode 1 Enable = Mode 1-Enable or Pilot Eject-Eject	CSDC and Transponder Receiver Transmitter - IFP Emergency Control - Manual IFF Emergency-Enable or Filot Eject-Eject	1MSPD Fig. 10 Transponder Receiver Transmitter - Mode 2 Zone 22B, 5B, 3G Enable - Mode 2 - Enable or Pilot Eject-Eject 10	CSEC and Transponder Receiver Transmitter - Mode 34 Enable - Mode 34 - Enable or Pilot Eject-Eject	Transponder Receiver Transmitter - Similivity Control - Semilivity Control - Mormal or Pilot Eject-Eject	Transponder Receiver Transmitter - Standby Control - Standby Control - Operating or Pilot Eject-Eject	Transponder Riceiver Transmitter - 28VDC and Power Control - PMR Relay Control - Enable		
2		Brernce Dravings	1WSFD F16. 10 2one 1B, 22C	16SFD F16. 10 Zone 1B, 5C, 38 48	IMSPD FIG. 10 Zone 22B, 5B, 3C, 10	INSPD FIG. 10 Zone 22B, 11A, BA, 3C, 1C	IMSPD P1g. 10 Zone 22B, 8B, 3d 10	IMSPD FIG. 10 Zone 22B, 5B, 3c, 10	IMSPD F16. 10 Zone 22B, 6M, 3C, 10	IMSPD F1g. 10 Zone 22B, 8A, 3C, 10	INSPD F16. 10 Zone 1C, 6A 22C		
TABLE III P-14 SOSTEL BOLLEAN EQUATIONS	9	Special Considerations	Ess. No. 1 Bus	Left Main Bus	Left Main Bus	Ess. No. 1 Bus	Ess. No. 1 Bus	Ess. No. 1 Bus	Ess. No. 1 Bus	Ess. No. 1 Bus	Ess. No. 1 Bus		
TABLE III P-14 S	•	Bus/Load Management Priority	ι	e	•	-	-	-	1				
		Solid State Controller List Cross Reference	090	190	295	537	536	356	399	909	101		
		Transducer List Cross Reference	N/A	N/A	013 282	283	284	013 285	286 286	267	588		
	æ	Boolean Equation	SXLOGO	sxroer	SXL382 - SXS282	SXL537 = SXS283 + WPSO13	SXL538 = SXS284 + WFSO13	5x1398 = 5x5285 + WF5013	5XL399 = 5XS286 + WPS013	SXL400 = SX3287	AXL401 = 5XS288		
	-	Table Item #	090	78	3 2	537	538	98.	\$6	90	101		

SHEET 1	13 Conditioning Technique	Solid State
MOUNE 11 SHEET 1	12 Associated Boolean Equation	290
	11 Reference Drawings	1,1 Zone 1, 2, 3
	10 Operational Address	мыл
	9 Conventional Switches Being Replaced or Deleted	НЗБ/ВФО ВАТССВ
THANSDUCERS	B Associated Loads	HSP/ECM Display Inter- lock Relay far Cock- pt Relay Box 79341)
TABLE I F-14 SOSTEL SIGNAL TRANSDUCERS	7 Present Signal Characteriatics	Off = 20VDC
TABLE I P	fransducer Type	Toggle Svitch
	5 Point of Origin	Filots Right Vertical Console STAZ25
	4 Signal Source Box Identification	Panel (709Al)
	3 Identifier Code	TESO16
	2 Signal Name/Function	HSD/ECHD - ON
	Table Ites	910

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FIGUR 11 SHEET	я	Associated Boolean Equations	38
no.	a	Reference Drewings	110. 270, 250, 250, 250, 250, 250, 250, 250, 25
2	91	Identifier Code	**************************************
	•	Operational Address	CORALS CORALS OFFILE OFFILE OFFILE OFFILE OFFILE OFFILE OFFILE OFFILE OFFILE OFFILE OFFILE OFFILE OFFILE OFFILE OFFILE OFFILE OFFI OFFI OFFI OFFI OFFI OFFI OFFI OFF
TABLE II F-14 SOLID STATE POWER CONTROLLERS AND DELYKES		Conventional Devices Being Replaced	(3562) (7.54) HEB ENDO (3562) (7.54) HEB ENDO (3662) (7.54) HEB ENDO (3662) (36) Ustaplay Fover (3662)
ID STATE POPER	-	P.C. Location	
BE 11 2-14 801	• 3	Poser Dissipation	
A	•	Duty Cycle	
		Associated Loads	(M., M., M.) (M., M.) (M.) (M.) (M.) (M.) (M.) (M.) (M.) (
	•	Reting V & I	1 - 115/MC 115/MC 1 - (48) - 1 - (48) - 1 - (48) - 1 - (48) - 1 - (48) - 1 - (48) - 1 - (48) - 1 - (48) - 1 - (48) - 1 - (48) - 1 - (48) - 1 - (48) - 1 - (48) - 1 - (48) - 1 - (48) - 1 - (48) - (48) - 1 - (48)
	2 70	Power	AC - 3 Pole
	-	Table Item #	38

-1	_		
FIGURE 12 SHEET 2		Mquetion Description & Motes	Processor 119/MC MA, ghe and pC and MSD indicator 119/MC MB will MED/ENDE Setted on and Left or Hight MED Weight Is not on wheels or Ground Cooling Setted High on Line or Line or Left Main Fower on Line or Left Main Fower on Line)
9	1	Reference Drawings	1165FD F18. 11 Zone 11, 2, 3, 1170, 270, 290
TABLE III P-14 GOSTEL BOOLEAN BRIMTIONS	9	Special Considerations	Left Main Bus
TABLE III P-14	•	Bus/Load Management Priority	·
		Solid State Controller List Cross Reference	*
	3	Transducer List Cross Reference	9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
	8	Boolesn Equation	TELOGE - TESOID • (GT6002 + GT6102 + H80005 - XA5003 + XA5004
	-	Table Item	8

SHEET 1	13 Conditioning Technique	Solid State	Solid State
PIGURE 12 SHEET 1	12 Associated Boolean Equation	8	₹
	11 Reference Drawings	IWSPD F1g.	12 Zone 3
	10 Operational Address	02P15	энг
	9 Conventional Switches Being Replaced or Deleted	VDI On/Off Switch VDI Interlock Relay (AFF Cockpit Relay Box 793A1)	HID on/off Switch HBD interlock Relay (AFT Cockpit Relay Box 793A1) AFY 76 RAICS inter- lock Relay (AFT Cock pit Helay Box 793A1)
TRANSDUCERS	8 Associated Loads	VDI Inter- lock Relay (AFT Cock- pit Relay Box 793A1)	HWD Inter- lock Relay (AT COCK- pit Relay Box 7931)
TABLE I F-14 SOSTEL SIGNAL TRANSDUCERS	7 Present Signal Characteristics	ON - Open Off - 28VDC	Off = 26VDC
TABLE I	6 Transducer Type	Toggle Switch (SPOT)	Switch (SPDT)
	Point of Origin	Pilots Right Vertical Console STA225	Filota Right Fight Console STAZ25
	4 Signal Source Box Identification	Displays Control Panel (709Al)	Panel (TogAl)
	3 Identifier Code	FESO18	FFS019
	Signal Name/Function	VDI-On	16 0-64
	Table Ite	910	610

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PIOUR 12 SHEET	я	Associated Boolean Equations	8	3 .
Ĕ	n	Beference Drevings	142FD F1g.	Zone 1
	9	Identifier Code	PELO63	FELOGA
99	•	Operational	23610 13610	00-00-00 October Octob
TABLE II 7-14 SOLID STATE PORER CONTROLLERS AND DRIVERS	8	Conventional Devices Being Replaced	CB11 (7.5A) VDI PH A (35A2) CB25 (7.5A) VDI PH B (35A4) CB15 (7.5A) VDI PH CB15 (35A4)	CBB (7.5A) HUD PH A (7.5A) CBC2 (7.5A) HUD PH B (53A) (53A) (53A) (53A) (53A) (53A)
ID STATE PORE	-	P.C. Location		
NR. II 7-14 80	9	Load Power Dissipation		
a	•	Duty		
	,	Associated Loads	ADI Converter (26A2)	Abl Converter (2642)
		Reting V & I	v = 115vAC dA, B&C 1 = 7.5A each	V = 115vaC TA, B.C TA, B.C TA, B.C
	~	Type of Power Controller	AC - 3 Pole	AC - 3 Pole
	-	Table Ite #	690	\$

1	_			
MOTHE 12 SHEET A	60	Equation Description & Motes	VDI 11:VUC MA, B and C On = VDI Switch on and (Right Main AC PMR on Line or Ground Cooling Pressure Switch High <u>or Left or Right</u> MG Weight is not on Wheels	INSPER Fig. 12 Zone 1, 7, 3, 4, Main AC PMR on Line or Left Main AC PMR on Line 25C or Ground Cooling Pressure Switch High)
2	7	Reference Drawings	IMSPD F1g. 12 Zone 1, 2, 3, 4, 25C	1.WSFD Fig. 12, 3, 4, 2, 25,C
TABLE III P-14 SOSTEL BOCLEAN EQUATIONS	9	Special Considerations	Ess. No. 2 Bus	No. 2 Bus
TABLE III P-14	•	Bus/Load Management Priority	a	a
	-	Solid State Controller List Cross Reference	063	₹
	3	Transducer List Cross Reference	90 60 60 60 00 10 00 00 00 00 00 00 00 00 00 00 00	8888
	~	Boolean Equation	FELOG3 - PESO18 • (KASO2) - KASOO4 • HESOO5 • GESOO2 • GESTO?	MBSOC) - FESO19 • (KASOC) • HBSOC)
	-	Table Item	86.	र्वे

MOURE 13 SHEET 1	ส	Associated Boolean Equations	900	990
	п	Reference Dreetings	IWSFD F16. 13.	10, 2, 154
	10	Identifier Code	490TOR	99019A
	6	Operational	62010	06910 SC 510 SC 510
TABLE II P-14 SOLID STATE POWER CONTROLLERS AND DRIVERS		Conventional Devices Being Replaced	CB27 (3A) CSDC (36A2)	CBIO (3A) CBIO (5A) (35A2 CB24 (3A) CBIO (5B) (35A4 CBI) (3A) CBIO (5C (35A4 KI CBIO (5C (35A4 CGC))) (3A) CBIO (5C (3A) CGC) (4VT CGC(5A1 Kelay Box 793A1.
LID STATE POAR	-	P.C. Location		
NE II P-14 80	9	Load Power Dissipation		
4	•	Dety Cycle	1001	100\$
		Associated Loads	CSDC (OTAL)	CSBC (07AL)
	•	Meting V & I	v = 28vDC I = 3A	v = 115vac C B, B,
	œ.	Type of Power Controller	DC - 1 Pole	AC - 3 Pole
	-	Table Item	900	***************************************

1	_					
NOW SHEET	•	Rquation Description & Motes	CSDC +28VDC Essential #2 Bus Energized	CSDC 1159AC \$4, B and C = Right Main AC PAR On Line or Left Main AC PAR On Line or Ground Cooling Pressure Switch High		
		Reference Drawings	IMSFD F1g. 13 Zone 1A, 15A	IMSPD F1g. 13 Zone 1, 2, 15A	•	
TABLE III P-14 SOSTEL BOLLEAN EQUATIONS	9	Special Considerations	Ess. No. 2 Bus	Ess. No. 2 Bus		
TABLE III P-14	5	Bus/Load Management Priority	cu cu	N		
	,	Solid State Controller List Cross Reference	965	98		
	9	Transducer List Cross Reference	N/A	8,98,89		
	8	Boolean Equation	590700	UCLO66 = XASOO3 + XASOO4 + INSOO5		
	-	Table Item	\$90	\$		

SHEET 1	13 Conditioning Technique	Solid State
FIGURE 14 SHEET 1	12 Associated Boolean Equation	190
	11 Reference Drawings	13 Zone 3C
	10 Operational Address	godeo
	9 Conventional Switches Being Replaced or Deleted	GYROS/ASHLD HT Switch GYRO Power of Relay K36
TRANSDUCERS	8 Associated Loads	office Power of Relay 196 (Right Glove Relay Box (72A1)
TABLE I F-14 SOSTEL SIGNAL TRANSDUCERS	7 Fresent Signal Characteristics	off = +28Vpc
TABLE I P	6 Transducer Type	Toggle Sulten
	5 Point of Origin	STA 300
	ly Signal Source Box Identification	SYS Test-SYS PWR Punel (790Al)
	3 Identifier Code	RMSGC2O
	2 Signal Name/Punction	Greekwallu
	Table Ite	020

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PICURE 14 SHEET 1	ส	Associated Boolean Equations	790	8	690	86	6	orz	es a	ŧ.	975	
1	n	Reference Drewings	JMSFD F1g. 14 Zone 1, 2B, 2C, 3C, 6C, 8C, 26A	INSPD F1g. 14 Zone 1A, 6C INSPD F1g. 15 Zone 1A, 9B	IMSFD F1g. 14 Zone 1A, 10B	IMSFD F1g. 14 Zone 1B, 10B	IWSFD F1g. 14 Zone 1B, 10B	IMSFD F1g. 14 Zone 1B, 13A	IWSFD F1g. 14 Zone 1B, 13A	IMSFD F1g. 14 Zone 1B, 13A	IMSPD F16. 14 Zone 2A, 178	
	01	Identifier Code	RNILOG7	вито68	KNID69	RMLO70	RNLO71	RNLO72	RML073	KMLO74	STOJIMI STOJIMI	
	6	Operational	04Q40 01Q39 01Q40 01Q41	01408	0440	04411	oleq12	60010	01010	11010	OTQUS	
R CONTROLLERS AND DRIVERS	60	Conventional Devices Being Replaced	CB3 (5A) GYRO PAR (36A4) CB9 (5A) AHRS ØA (35A2) CB23 (5A) AHRS ØB (35A4) CB12 (5A) AHRS ØC (35A4)	CB7 (7½A) Tacan ARN-84 (35A2)	CB12 (5A) NAV PAR PH A (35A5)	CB10 (5A) NAV PMR SUP PH B (35A5)	CB9 (5A) NAV PAR SUP PH C (35A5)	(35A5)	(35A5)	(35A5)	CB30 (10A) ANN PNL PAR (36A2)	
TABLE II F-14 SOLID STATE POWER CONTROLLERS AND DRIVERS	1	P.C. Location										
	•	Load Power Dissipation										
A	~	Duty		\$001	100\$	100	100	100\$	100\$	100	100%	100%
	-	Associated Loads	1) ph, pB and pc - AMRS Amplifier (OZAR1) 2) pA - CSDC - AMRS SYNC REF (O7A1)	1) AHRS Amplifiers (CZAR1) 2) ARN-84 TACAN Receiver mitter Mount (OLA1)	IMU PWR Supply (OSA2)	= 115VAC INU PWR Supply 106A2 (06A2 5A 106A2 106A2	IMU PWR Supply (06A2)	IMI (06A1)	IMI (06A1)	= 115VAC IMI (06A1) pc = 10A	a) NFO Caution Advisory Indicator (69- AZAI)	b) Pilot Caution Advisory Indica- tor (69A1)
	9	Rating V & I	V = 115VAC 1) (A, B, C) I = 5A each 2)	v = 115VAC 1)	v = 115vac pa I = 5a	v = 115vAC pbB 1 = 5A	v = 115vac pc I = 5A	V = 115VAC I ØA I = 10A	v = 115vAC 1 gB t = 10A	/ = 115VAC pc I = 10A	v = 28vpc I = 10A	
	8	Type of Fower Controller	AC - 3 Pole	AC - 1 Pole	AC - 1 Pole	AC - 1 Pole	AC - 1 Pole	AC - 1 Pole	AC - 1 Pole	AC - 1 Pole	DC - 1 Pole	
	-	Table Item #	60	990	690	oyo	ιω	OTZ	073	47.0	075	

PICURE 14 SHEET 2	21	Associated Boolean Equations	orfé
ou.	п	Reference Drawings	Zone ZA, 33A
4	oq	Identifier Code	9,0000
	6	Operational	04433
TABLE II F.14 SOLID STATE POWER CONTROLLERS AND DRIVERS	80	Conventional Devices Being Replaced	GB27 (3A) CSIO (3GA2) (Same as Pig. 13 Item O65)
ID STATE POSER		P.C. Location	
DS भर-य 11 जन	9	Load Power Dissipation	
A	٠	Duty Cycle	Y oort
	4	Associated Loads	GSLC (OTAL)
	e	Pating V & I	I = 3A
	cu.	Type of Power Controller	DC - 1 Pole
	-	Table Item	9.0

-	_												
	80	Rquetion Description & Motes	115VAC \$4, B and C to the ANNS Amplifier and 115VAC \$4 to the CSIC - ANNS STNC REF = Gyros/WSHLD HT Switch-On	1159AC &A to AHBS Amplifiers and 1159AC &A to the ARB-84 facan Receiver - Transmitter mount = 1159AC &A Essential #2 Bus energized	llovac da to the 1MU PMR Supply = llovac da Left Main Bus energized	115VAC ØB to the IMU PWR Supply = 115VAC ØB Left Main Bus energized	llsvac ØB to the 1MU PWH Supply = llsvac ØC Left Main Bus energized	115VAC ØA to the IMU = 115VAC Left Main AC Bus energized	115VAC dA to the DAU = 115VAC Left Main AC Bus energized	115VAC #A to the IMU - 115VAC #A Left Main AC Bus energized	28VDC to the NFO and Pilots Caution Advisory Indicator = 28VDC essential #2 Bus energized	28VDC to the CSDC = 28VDC Essential #2 Bus energized	
	7	Reference Drawings	IMSFD F1g. 14 Zone 1C, 3C, 2, 3, 6c 26A	IWSFD Fig. 14 Zone 1A, 6C IWSFD Fig. 15 Zone 1A, 98	INSPD F1g. 14 Zone 1A, 10B	INSFD Fig. 14 Zone 1B, 10B	IWSFD F1g. 14 Zone 1B, 10B	JWSFD F1g. 14 Zone 1B, 13A	IWSFD F1g. 14 Zone 1B, 13A	IWSFD F1g. 14 Zone 1B, 13A	IWSFD F1g. 14 Zone 2A, 17B	IWSFD F1g. 14 Zone 2A, 33A	
,	9	Special Considerations	Ess. No. 2 Bus	Ess. No. 2 Bus	Left Main Bus	Left Main Bus	Left Main Bus	Left Main Bus	Left Main Bus	Left Main Bus	Ess. No. 2 Bus	Ess. No. 2 Bus	
	2	Bus/Load Management Priority	a	a	E.	E		8	٣		a	N	
		Solid State Controller List Cross Reference	190	88	68	070	0/1	072	073	1/20	075	910	
	6	Transducer List Cross Reference	050	м/м	N/A	N/A	N/N	N/A	N/N	N/A	N/A	N/A	
	8	Boolean Equation	RNLO67 = RNSO20	нилоев	RMLO69	RNLO70	RMLO71	KNL072	RNLO73	RNLO74	DULO75	UCIO76	
	-	Table Item (190	990	690	010	140	072	073	7/10	510	920	

(3)

SHEET 1	13 Conditioning Technique	External Signal Adapter Adapter
FIGURE 15 SHEET 1	12 Associated Boolean Equation	ж.
	11 Reference Drewings	15 Zone 33C
	10 Operational Address	20050
	9 Conventional Switches Being Replaced or Deleted	N/A
TRANSDUCERS	8 Associated Loads	Pilot Mech Afraped (SAC)
TABLE I F-14 SOSTEL SIGNAL TRANSDUCERS	7 Fresent Signal Characteristics	
TABLE I F	6 Transducer Type	Enable Signal GND/OPEN
	Soint of Origin	
	Signal Source Box Identification	(1341)
	3 Identifier Code	F1.52/76
	2 Signal Name/Punction	Return Speed-
	1 Table Item #	27/8

(3)

PIOUNE SHEET	21	Associated Boolean Equations	920	640	. 080	ф		990	er c
Ĕ	я	Reference Drevings	IMBPD F16. 15 Zone ZB, 3B, 21B	IMSFD F1g. 15 Zone 2B, 3B, 21C	IMSFD F1g. 15 Zone 3C, 19C	IMSFD F1g. 15 Zone 1A, 198		IMSPD F1g. 19 Zone 1B, 33C	JWSPD F1g. 15 Zone 4h, 4B, 3h, 1B, 2C
	10	Identifier Code	HALO78	Нитот9	ogorivs.	190TVS		RMLO85	PDL533
-	6	Operational	07916	0360	03611	03412		03413	7.070
TABLE II F.14 SOLID STATE POMER CONTROLLERS AND DRIVERS		Conventional Devices Being Replaced	CB20 (5A) R Pitot/ Static HTR (35A4)	CB21 (5A) L Pitot/ Static HTR (35A ⁴)	CB30 (3A) Alt Low Warn (36Al)	CB10 (5A) Radar Altm (35A3)	c	CB6 (3A) ARC 124 PHA/ ASW 27 (35A5)	CBT (5A) STBY ATTO IND PH B (3SA3) PH D (1SA2) PHO KAD-STBY ATLITUDE PM Relay (Left Glove Relay Box 773A1) CP 6 (7.5A) INST Bus FUR (3SA ¹)
ID STATE POWE	7	P.C. Location							
BE II F-14 SO	9	Load Power Dissipation							
a	5	Duty				1000		100\$	
	•	Associated Loads	Right Pitot Static Probe Heater (81A2)	Left Pitot Static Probe Heater (81A1)	Radar Altimeter (03A2)	Radar Altimeter (03A2)		a) PMS Relay Assembly (27A38)	a) Pilot Standby Attitude Indicator (SGM) b) NFO Standby Attitude Indicator (SGM)
		Reting V & I	v = 115VAC	v = 115vac v = 115vac v = 5A	v = 28vbc I = 3A	v = 115VAC pbB I = 5A		v = 115vAC QA 1 = 3A	v - 115vac
	O.	Type of Power Controller	AC - 1 Pole	AC - 1 Pole	DC - 1 Pole	AC - 1 Pole		AC - 1 Pole	AC - 1 Pole
	-	Table Item #	078	610	980	ogi		. 085	233

0.

	_						
FIGURE 17 SHEET 2	ส	Associated Boolean Equations	534	. 311	378	705	F03
1	==	Reference Drewings	IWSPD F16. 15 Zone 44, 4B, 34, 2C, 1B	LWSFD F1g. 15 Zone 34B, 3A	IMSPD P1g. 15 Zone 16, 10	IMSFD F1g. 15 Zone 2A, 3C	JMSPD F18. 15 Zone 2A BA 9B, 15A, 15C
	or	Identifier Code	FDL534	FLL377	FFL378	PALMOS	коллюз
	6	Operational	отеле	92120	03636	75910	944460
TABLE II F-14 SQLID STATE POWER CONTROLLERS AND DRIVERS	0	Conventional Devices Being Replaced	CB11 (5A) STBY ATTD IND PH A (35A3) CB26 (7.5A) INST Bus PIN (35A4) P/O KIO-STBY Attitude PM Relay (Left Glove Relay BOX 7773A1)	P/O K42-ALT Reliable Relay (Left Glove Relay Box 773A1)	CB1 (5A) - Tacan/BDHI INST PAR	CB35 (5A) A/S IND/ BARGALTH DC (36A2)	(36A2)
ID STATE POWE	1	P.C. Location					
NE 11 7-14 80	9	Load Power Dissipation					
A	•	Duty			1005	1000	* 001
	_	Associated Loads	a) Pilot Standby Attitude Indica- trifting (2045) b) NFO Standby Attitude Indica- tor (52M5)	Pilot Mach Airspeed Indicator (52M2)	a) Pilot Buhi (Olas) b) NPO Buhi (722AlM2)	Rate Gyro Trans- mitter (52Al) 28VDC	a) Pilot Comm/MAV CMD Panel CMD Panel Freed yer - Transmitter Mount (0lAt) c) Pilot BOHI d) NFO BUHI (732A1M2)
		Rating V & I	y = 115VAC 6	GND/Open	v = 26vac	v = 28VDC	v = 28VDC
	~	Type of Power Controller	AC - 1 Pole	Relay Driver GND/Open	AC - 1 Pole	DC - 1 Pole	DC - 1 Pole
	-	Table Item #	468	377	378	704	403

Equation Description & Notes	Right Pitot Static Probe Heater is Energized <u>if</u> the RNN/Frobe Anti-troe Sautch is in OHIDE Position or (if in the Anto Position <u>and Left or Bight MiG</u> Weight is not on Wheels)	Left Pitot Static Probe Heater is Energised <u>if</u> the DAG/Probe Auti-toes Sutch is in ONINE Position or if in the Auto Position <u>and</u> left <u>or</u> Right MLG Weight is not on Wheels	Hadar Altimeter +28VIC = 28VDC Ess. #1 Bus energized	Radar Altimeter 115VAC #8 = 115VAC #8 Ess. #1 Bus energized	PRS Relay Assembly - (1199AC \$A) = 1159AC \$A Left Main Bus-Energized	Pliot and NFO Standby Attitude indicator llyyAC #6 = Inst-On	Pilot and NFO Standby Attitude Indicator 115VAC (1862 Shifted (A) = Inst-On	Pilot Mach Airmpeed indicator - AMC Reliable - Command Speed - Return and AMC Altitude - Reliable
Reference Drewings	INSPD F1g. 15 Zone 2B, 3B, 21B	1MSFD F1g. 15 Zone 2B, 3B, 21C	INSPD F1g. 15 Zone 3C, 19C	INSPD Fig. 15 Zone 1A, 198	INSPD F16. 15 Zone 1B, 35C INSPD F16. 3A Zone 1A, 10A	INSPD F1g. 15 Zone 4A, 4B 3A, 2C, 1B	IMSPD FIG. 15 Zone IA, IB, 3A 2C, 1B	lwist Fig. 15 Zone 348, C 38, 268
Special	Ess, No. 2 Bus	Ess. No. 2 Bus	Ess. No. 1 Bus	Ess. No. 1 Bus	Left Main Bus	Ess. No. 1 Bus	a) Ess. No. 1 Bus b) Require 115VAC gA out of Trans- former (for Phase Reversal) to achieve 115V Line to Line	Eas. No. 2 Pus
Bus/Load Management Priority	O.	N.	r	1		7		OI .
Solid State Controller List Cross Reference	978	610	990	190	590	533	46.0	T.
Transducer List Cross Reference	20 20 20 20 20 20 20 20 20 20 20 20 20 2	8888	N/A	N/A	N/A	uz.	тг	278 517
Boolean Equation	HALOTB = HASOOG + [HASOOT • (GISOOZ + GISLOZ)]	HALO79 - HASOOC + [HASOO7 • (GISOOZ + GISIOZ)]	SALOBO	загові	RNLOB5	FDL533 = 2AS277	FDL>34 = XAS277	• FISS17
Table Item #	970	640	98	19 0	8	533	534	377
	Solid State Bas/Load Special Reference Description Descripti	Transducer Solid State Bus/Load Special Reference Int Cross Int Cross Reference Priority Considerations Prevince Priority Considerations Drawings	Transducer Solid State Bus/Load Special Instrument Special Instrument Instrument	Part Part	Transducer Solid State Bus/Load Special Beference Special Special Beference Int Cross Int Cros	Note	Procession Roughton Procession Process	Maintenance Controller Bas/Load Special Bas/Load Bas/Load Special Bas/Load Bas/Lo

60	Mquation Description & Notes	Pilot and NPO BIHI - 26VAC AM = 26VAC NAV Bus PH A - energised	Rate Gyro Transmitter - 28VDC Essential No. 2 Bus - energized	Pllot Comm/MAY CMD Parel, ANGH-SH TRCAM RCY-DOTTS Mount, Pilot and NFO BIMI - 28VDC = 28VDC Essential Bus No. 2 energized	
7	Reference Drawings	IMSFD F16. 15 Zone 16, 10	LuSFD F1g. 15 Zone 2A, 3C	IMEPD P16. 15 Zone 2A, 8A 9B, 15A, 15C	
9	Special Considerations	NAV. Bus	Ess. No. 2 Bus	NAV. Bus	
\$	Bus/Load Management Priority	e	Ĉi.	OJ.	
4	Solid State Controller List Cross Reference	378	704	403	
3	Transducer List Cross Reference	N/A	N/A	N/A	
2	Boolean Equation	FFL378	FALLOZ	кигдоз	
7	Table Item #	378	704	103	

The state								
Section 1	SHEET 1	13 Conditioning Technique	External Signal Adapter	Solid State	Solid State	External Signal Adapter	Solid State	Solid State
Table 1 Park Strate State	FIGURE 16	12 Associated Boolean Equation	140 141 194 194	146 150 151 153	150		2423	24844
Signal Season Signal Searce		11 Reference Drawings	IMSFD F1g. 16 Zone 12C 58	16 Zone 48	IMSFD F1g. 16 Zone 2A	JWSFD Fig. 16 Zone 5B, tg	IMSPD F1g. 16 Zone 4A	Despt Prg.
Signal Source Signal Source Notice Industriated Code Bax Sagnal Source Notice Industrial Code Bax Sagnal Source Notice Industrial Code Sagnal Source Notice Industrial Code Sagnal Source Sagnal Code Sagnal Sagnal Source Sagnal Code Sag		10 Operational Address	90050		71450	60050	90490	81450
Signal Source Signal Source Notice Industriated Code Bax Sagnal Source Notice Industrial Code Bax Sagnal Source Notice Industrial Code Sagnal Source Notice Industrial Code Sagnal Source Sagnal Code Sagnal Sagnal Source Sagnal Code Sag		9 Conventional Switches Being Replaced or Deleted	And Logic Gate in Power Switching Unit (85A2)	Button Svitch (6552)	ACM Switch (ACM Panel (702Al)		Armament Safety Over- ride Switch (8583)	
Signal Gode Box Identification Origin Origin Code MCB Enable KGSO76 Armament Panel Vertical Console Stores Jet. Stores Jet. AMSO77 Damerg Stores Jett Filots Stores Jett (85A1) ACM (Air Com- AMSO77 Damerg Stores Jett Filots (1800) Emergency AMSO77 Damerg Stores Jett Filots (1800) ACM (Air Com- AMSO77 Armament Panel Console STA225 Puse Enable AMSO79 Armament Panel WFO Left Fince Console Stores Jett (85A1) Armament Armament AMSO79 Armament Panel Werlical Console Stores Jett (85A1) Armament Armament AMSO79 Armament Panel Werlical Console Stores Jett MASO79 Armament Safety Original Console Stores Jett MASO79 Armament Safety Center Fince Stabled Console Stores Jett MASO79 Armament Safety Center Fince Stabled Console STA300 ACM JETT AMSO71 ACM JETT Push Pllots Funce STA300 STA225 STA300 STA225 ACM JETT AMSO73 Armament Safety Center Funce Stabled STA300 STA225 STA300	TRANSDICERS	8 Associated Loads	Power Switching Unit (85A2)	Armanent Panel (85Al)	Armament Panel (85Al)		Safety Over- ride Signal (28VDC) to Armament Panel (85A1)	Armannent Pruel (85Al)
Signal Gode Box Identification Origin Origin Code MCB Enable KGSO76 Armament Panel Vertical Console Stores Jet. Stores Jet. AMSO77 Damerg Stores Jett Filots Stores Jett (85A1) ACM (Air Com- AMSO77 Damerg Stores Jett Filots (1800) Emergency AMSO77 Damerg Stores Jett Filots (1800) ACM (Air Com- AMSO77 Armament Panel Console STA225 Puse Enable AMSO79 Armament Panel WFO Left Fince Console Stores Jett (85A1) Armament Armament AMSO79 Armament Panel Werlical Console Stores Jett (85A1) Armament Armament AMSO79 Armament Panel Werlical Console Stores Jett MASO79 Armament Safety Original Console Stores Jett MASO79 Armament Safety Center Fince Stabled Console Stores Jett MASO79 Armament Safety Center Fince Stabled Console STA300 ACM JETT AMSO71 ACM JETT Push Pllots Funce STA300 STA225 STA300 STA225 ACM JETT AMSO73 Armament Safety Center Funce Stabled STA300 STA225 STA300	-14 SOSTEL SIGNAL	Present Signal Characteristics	Enable = 28vDC	Jett - 28vuc Jett - Open	ACM - On = 28VDC ACM - Off = Open	Svitched 28VIC	Switch 28VDC with Relay Lock Up	Switched 28VIC
MASSON ATTRAMENT SIGNAL SOUTHER STATEMENT PAINT NOT STATEMENT STAT	TABLE I	6 Transducer Type	н/А	Four Pole Push Button Switch (Momentary Must Contain Logic Lock Up)	Toggle Switch	¥/x	Toggle Switch (Mechanical Toggle with Electrical Lockup)	Push Button
MAS Enable Code MAS Enable MCSO76 A MAS Enable MCSO76 A Stores Jet. AMSO77 B Stores Jet. AMSO79 A Anament AMSO79 A Storey Oride Storey Oride Switch - Enabled ACM JETT AMSO81 A RCM JETT AMSO81 A Pus Enabled		5 Point of Origin	NFO Left Vertical Console STA300	Pilots Left Vertical Console STA225	Pilots Center Panel STA225	NFO Left Vertical Console STA300		Pilota Center Panel STA225
ACM JETT ACM JETT ACM JETT ACM JETT ACM JETT ACM JETT			Armament Panel (85Al)	Emerg Stores Jett Push Button Switch (8,582)	ACM Panel (702Al)	(85A1)	Armament Salety Override Switch (8583)	ACM JETT. Push Button Switch (ACM Funel 702Al)
3		3 Identifier Code	KC3076	AMSOT7?		WEOT9	AMSOBO	ANSOR1
076 078 078 079 079 079 079 079		Signal Neme/Punction	MCB Enable	Emergency Stores Jet- tison	ACM (Air Com- bat Maneuver) On	Fuse Enable INTLK (28VIC)	Armament Safety Oride Switch - Enabled	ACM JETT
		Table Ite	910	220	920	Ê	98	§

FIGURE 16 SHEEF 2	13 Conditioning Technique	Solid State
MOUNE 16	12 Associated Roolean Equation	561 961
	11 Reference Drawings	2A 20ne 2A 20n
	10 Operational Address	61420
	9 Conventional Switches Being Replaced or Deleted	
TRANSDUCERS	8 Associated Loads	Panel (65A1)
TABLE I F-14 SOSTEL SIGNAL TRANSDUCERS	7 Present Signal Characteristics	Toggle Switch Switched 28VDC
TABLE I	6 Trensducer Type	Toggle Svitch
	Point of Origin	Pilota Center Pauli STA225
	Signal Source Box Identification	ACM Panel (702A1)
	3 Identifier Code	ANS: OB2
	2 Signal Neme/Punction	On On
	Table Item	8

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21	Associated Boolean Equations	126	121	128	129	081	ığı .	24.	133	ŧ.	135	136	133	136	
=	Reference Drewings	IWSFD Fig. 16 Zone 1A, B, C	IMSFD F1g. 16 Zone 1A, 13C	IMSPD Fig. 16 Zone 1A, 13C	IMSFD F1g. 16 Zone 1A, 13C	IWSFD F1g. 16 Zone 1A, 13C	Zone 1A, 13C	IMSFD Fig. 16 Zone 1A, 13C	IWSPD Fig. 16 Zone 1B, 8c	IMSFD F1g. 16 Zone 1B, 13C	INSFD F1g. 16 Zone 1B, 13C	IMSFD F1g. 16 Zone 1B, 2A	INSPD F16. 16 Zone 34, 50	Lone 34, 15C	
or	Identifier Code	9ZTTDV	AGL127	AGL128	AGL129	AGL130	AGL131	AG1132	AGL133	ACL134	AGLL 35	9€113V	ксызу	мешзв	
6	Operational Address	05951	05452	05453	95850	09455	95850	75950	95850	65850	09860	03415	19860	0500	
	Conventional Devices Being Replaced	CB33 (7.5A) STA5, 6 and 7 REL PAR A (36A1)	CB32 (7.5A) STA5, 6 and 7 REL PAR B (36A1)	CB10 (7.5A) STAB REL PWR A (36A1)	CB9 (7.5A) STAB REL PAR B (36A1)	CB35 (7.5A) STA2, 3 and 4 REL PAR & (36A1)	CB34 (7.5A) STA2, 3 and 4 REL PAR B (36A1)	CB26 (7.5A STA1 REL PAR A (36A1)	CB25 (7.5A) STA1 REL PAR B (36A1)	CB37 (7.5A) STA1 AIM9 REL PWR (36A1)	CB38 (7.5A) STAB ALM9 REL PWR (36A1)	CB56 (34) ACH PHL PMR (3641)	CB53 (3A) MIG CPMSN Bypass PMR (36A4)	CB8 (7.5A) Mech Pusing 3/4 (36A4)	
1	P.C. Location														
9	Load Power Dissipation														
•	Duty	100%	100	100%	1001	1008	100\$	100%	1001	1008	1001	1001	\$00t	1001	
	Associated Loads	Power Switching Unit (85A2)	Power Switching Unit (85A2)	Power Switching Unit (85A2)	Power Switching Unit (85A2)	Power Switching Unit (85A2)	Power Switching Unit (85A2)	Power Switching Unit (85A2)	Power Switching Unit (85A2)	Power Roll Comp DC Switching Unit (85A2)	Power Pitch Comp EC Switching Unit (85A2)	ACM Panel (702Al)	Power Switching Unit (85A2)	Power Switching Unit (85A2)	
3	Reting V & I	V = 28VDC I = 7.5A	V = 28VDC I = 7.5A	v = 28vDC I = 7.5A	v = 28vDC 1 = 7.5A	v = 28VDC I = 7.5A	v = 28vDc 1 = 7.5A	v = 28vbc I = 7.5A	v = 28VDC 1 = 7.5A	v = 28vbc I = 7.5A	v = 28vpc I = 7.5A	v = 28VDC I = 3A	V - 28VDC I = 3A	v = 28VDC I = 7.5A	
~	Type of Power Controller	DC - 1 Pole	DC - 1 Pole	DC - 1 Pole	DC - 1 Pole	DC - 1 Pole	DC - 1 Pole	DC - 1 Pole	DC - 1 Pole	DC - 1 Pole	DC - 1 Pole	DC - 1 Pole	DC - 1 Pole	DC - 1 Pole	
-	Table Item /	126	121	128	129	330	R:T	132	133	134	135	136	137	138	
	3 4 5 6 7 8 9 10 11	Type of Pating Associated Loads Cycle Dissipation Location Being Replaced Address Code Dissipation Location Code Designation Code Dissipation Location Code Dissipation Code Dis	1 2 3 4 5 5 6 7 8 8 9 10 11 1	1 2 3 4 5 6 7 8 9 10 11	1 2 3 4 5 6 7 8 9 10 11	1	1	1	1 2 3 4 5 6 7 8 9 10 11	1 2 3 4 5 6 7 8 9 10 11	1 2 2 3 4 5 6 7 8 9 10 11	1	1	1	1 2 2 3 4 4 5 5 6 7 6 7 8 9 10 11

PLOURE 16 SHEET 2	21	Associated Boolean Equations	681	040	ThT.	142	143	141		146	247	941
N.	=	Reference Drewings	IMSFD F1g. 16 Zone 3A, 15C	IWSFD F1g. 16 Zone 1C, 5B 17A, 18A	IMSFD F1g. 16 Zone 1C, 5B 17A, 18A	IMSFD Fig. 16 Zone 4C, 5C	IWSFD F1g. 16 Zone 4C, 5C	IMSFD F1g. 16 Zone 4C, 5C	IMSFD Fig. 16 Zone 4C, 5C	IMSFD Fig. 16 Zone 4C, 5C	IMSFD F18. 16 Zone 4C, 5C	IMSFD F1g. 16 Zone 1B, 3B, 4B, 5B
	10	Identifier Code	96L139	онглэх	KCL141	AGLI42	AGE143	MGLIDA	AGELIAS	AGL146	УСЕЛЬ?	AME.148
	6	Operational	05463	10405	90860	03417	90000	ropso7	90820	60020	отвео	DE 1027
TABLE II P-14 SOLID STATE POWER CONTROLLERS AND DRIVERS		Conventional Devices Being Replaced	CB7 (7.5A) Mech Pusing 5/6 (36A4)	CBSB (5A) R Mid CPRSN Bypass (36A2) K57 Gun Missle Firing Interlock Relay (Left Glove Relay Box 773A1)	CB57 (5A) L Mid CPRSN Bypass (36A2)	CB9 (3A) AMG-15 PH A No. 2 (35A3)	CB13 (3A) ANG 15 ØA NO 1 (35A3)	CB14 (3A) ANG 15 ØB NO 1 (35A3)	CB6 (34) AMG 15 ØB No. 2 (35A3)	CB15 (3A) AMG 15 ØB No. 1 (35A3)	CB2 (3A) ANG 15 pc No. 2 (35A3)	CB7 (7.5A) Jett No. 2 (36A1) K22 MG Safety B (Right Glove Helsy Box 772A1)
ID STATE POWE	1	P.C. Location										
BLE II P-14 SOL	9	Load Power Dissipation										
A	•	Duty	1001			100%	100%	100%	100%	1001	1006	
	4	Associated Loads	Power Switching Unit (85A2)	Right Engine Mid CPRSN Bypass Bleed Control	Left Engine Mid CPMSN Bypass Bleed Control	a) Power Switching Unit (85A2) b) Armament Panel (85A1)	Power Switching Unit (85A2)	Power Switching Unit (85A2)	Power Switching Unit (85A2)	Power Switching Unit (85A2)	Power Switching Unit (85A2)	Armament Panel (85A1)
	9	Rating V & I	V = 28VDC I = 7.5A	v = 28vDC I = 5A	V = 28VDC I = 5A	v = 115vac ka 1 = 34	V = 115VAC AA I = 3A	V = 115VAC ØB I = 3A	v = 115vac øb I = 3a	v = 115vac øc I = 34	v = 115vac gc I = 3A	v = 28vDC I = 7.5A
	æ	Type of Power Controller	DC - 1 Pole	DC - 1 Pole	DC - 1 Pole	AC - 1 Pole	AC - 1 Pole	AC - 1 Pole	AC - 1 Pole	AC - 1 Pole	AC - 1 Pole	DC - 1 Pole
	-	Table Item #	139	140	141	142	143	h ht	145	346	147	148

_													
21	Associated Boolean Equations	641			95	ısı	152		153	ş.		155	*
п	Reference Drewtngs	IWSFD F1g. 16 Zone 1B			IMSPD F18. 16 Zone 1B, 3B, 4B, 5B	IWSFD F1g. 16 Zone 1B, 4B	INSPD F1g. 16 Zone 2B	IMSFD F1g. 18 Zone 1B, 1C	IMSFD F1g. 16 Zone 5B, 4B, 4A	IWSFD F1g. 16 Zone 5B, 3C 2A		IWSFD F1g. 16 Zone 5B, 3C, 2A	IMSPD F1g. 16 Zone 5B, 3A, 2A
01	Identifier Code	6үгли			AM 0.150	AMLISI	AGL152		AGL153	45T15W		AGLLSS	95TMV
۰	Operational	92020			62020	05020	93616		16020	æaæ		œD33	46020
	Conventional Devices Being Replaced	CBB (7.5A) Jett No. 1 (36A1)	CB3 (5A) MLG Safety RLY No. 2 (36A1)	K22 MLJ Safety B (Right Glove Relay Box 772Al)	CB4 (5A) MLG Safety No. 1 (3GA1) K31 MLG Safety D (Right Glove Relay Rox 772A1)		CB31 (5A) AMG-15 DC (36A1)			See F1g IX CB5 (5A) MIG Handle RLY No. 1 (36A2)	Glove Nelsy Box 772Al) CB28 (5A) Master Arm (36Al)		
7	P.C. Location												
9	Load Power Dissipation												
•	Duty Cycle						100%						
-	Associated Loads	Armament Panel (85A1)			Armament Panel (85Al)	EMERG Jett Push Button (8592)	a) AWG-15 (28VDC) (85A1)	b) Power Switch- ing Unit (85A2)	Safety Override (28VDC) Armament Panel (85Al)	MGG HDL DN (28VDC) Master Arm Select (Armament Panel 85A1)		MLG HDL Up (28VDC) Master Arm Select (Armament Panel 85A1)	ACM Jettison Select (28VDC) (Armament Panel 85Al)
6	Seting V & I	v = 28vDC I = 7.5A			V = 28VDC	v = 28vDc	V = 28VDC I = 5 Amp						
e e	Type of Power Controller	Enable Driver			DC - 1 Pole	Lamp Driver	DC - 1 Pole		Enable Driver	Enable Driver		Enable Driver	Enable Driver V = 28VDC
-	Table Ites	149			0,51	151	152		153	154		155	951
	3 4 5 6 7 8 9 10 11	2 3 h h 5 6 7 8 9 10 11 Type of Reting Rescisted Loads Cycle Dissipation Location Being Replaced Address Code Drest Controller V h I Associated Loads Cycle Dissipation Location Code Designation Location Code Designation Location Designation Code Designation Co	1	1 2 3 h h 5 6 7 8 9 10 11 Type of Routing Butting Load Prof. Load Prof. Load Prof. Load Prof. Load Prof. Load Prof. Location Paring Replaced Address Code Drawfings Location Paring Replaced Address Code Drawfings Location Paring Replaced Address Location Paring Replaced Address Load Prof. Location Paring Replaced Address Location Paring Replaced Addre	1	1 2 3 4 5 6 7 8 9 10 11	1	1	1	1 2 3 4 4 5 6 7 8 9 10 11	1	1	1

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PICURE 16 SHEET "	21	Associated Boolean Equations	<i>15</i> 17
NO	п	Reference Drawings	1 WSPD F18. 16 Zone 78, 2A, 1,A
	01	Identifier Code	PRILIDA
	6	Operational	жр33 2
TABLE II F-14 SOLID STATE POWER CONTROLLERS AND DRIVERS	80	Conventional Devices Being Replaced	CB4 (34) MG Handle REX No. 2 (36A2) K6 MG Handle (Right Glove Relay Box 772A1)
ID STATE POLE	7	P.C. Location	
NE 11 1-14 80	9	Load Power Dissipation	
4	•	Duty Cycle	
		Associated Loads	Fuse Exable (28VDC) (Armament Panel 85A1)
		Meting V & I	
	~	Power Controller	Enable Drives v = 28VDC
	-	Table Ites	

1																
Table of House	•	Rquation Description & Motes	Station 5, 6 and 7 Release Power A (28VDC) to the Power Suitching Unit = 28VDC Ess. No. 1 Bus energized	Station 5, 6 and 7 Release Power B (28VDC) to the Power Switching Unit = 28VDC Ess. No. 1 Bus energized	Station 8 Release Power A (28VDC) to the Power Switching Unit = 28VDC Ess. No. 1 Bus energized	Station 8 Release Power B (28VDC) to the Power Bwitching Unit = 28VDC Ess. No. 1 Bus energized	Station 2, 3 and 4 Release Power A (28VDC) to the Power Suitching Unit = 28VDC Eas. No. 1 Bus energized	Station 2, 3 and 4 Release Power B (28VDC) to the Power Switching Unit = 28VDC Ess. No. 1 Bus energized	Station 1 Release Power A (28VDC) to the Power Switching Unit = 28VDC Ess. No. 1 Bus energized	Station 1 Release Power B (28VDC) to the Power Switching Unit = 28VD: Ess. No. 1 Bus energized	Station 1 Aim 9 Release Power (28VDC) to the Power Switching Unit = 28VDC Ess. No. 1 Bus energized	Station 8 Aim 9 Release Power (28VDC) to the Power Switching Unit = 28VDC Ess. No. 1 Bus energized	Air Combat Muneuver Panel (28VIC) = 28VIC Ess. No. 1 Bus energized	Mid Compression Bypass Power (28VLC) to the Power Switching Unit - 28VLC Left Main Bus energized	Mech Pusing STA) and 4 to the Power Switching Unit = 28VDC Left Main Bus energized	
9		Peference Drawings	IMSFD F1g. 16 Zone 1A, 13C	IMSFD F1g. 16 Zone 1A, 13A	IWSFD F1g. 16 Zone 1A, 13C	IWSFD F1g. 16 Zone 1A, 13C	IMSFD F1g. 16 Zone 1A, 13C	IMSFD Fig. 16 Zone lA , 13C	IMSFD F1g. 16 Zone 1A, 13C	IMSFD FIG. 16 Zone 1B, 13C	IMSFD F16. 16 Zone 1B, 13C	IMSFD F1g. 16 Zone 1B, 13C	IMSFD F16. 16 Zone 1B, 2A	IMSFD Fig. 16 Zone 3A, 5A	IMBFD F1g. 16 Zone 3A, 15C	
NOTE III I-II SOUTH BACKING	9	Special Considerations	Ess. No. 1 Bus	Ess. No. 1 Bus	Ess. No. 1 Bus	Ess. No. 1 Bus	Ess. No. 1 Bus	Ess. No. 1 Bus	Ess. No. 1 Bus	Ess. No. 1 Bus	Ess. No. 1 Bus	Ess. No. 1 Bus	Ess. No. 1 Bus	Left Main Bus	Left Main Bua	
100cc 444 F-43	٠	Bus/Load Management Priority	1	-	1	1	-	٦	1	1	1		1	E.	3	
		Solid State Controller List Cross Reference	921	127	128	129	130	131	132	133	134	135	136	137	138	
	3	Transducer List Cross Reference	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/N	
	8	Boolean Equation	AGL126	AGL127	AGL128	AGL129	AGL130	AGL13J	AGL132	AGE133	AGL134	AGL135	AGL1 36	KC1.1.37	AGL136	
	-	Table Item #	126	121	128	129	130	131	132	133	187	135	136	137	138	

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•	Rquation Description & Notes	Mech Pusing STA5 and 6 to the Power Switching Unit - 28VDC Left Main Bus energized	Right Engine Mid Compression Bypass Bleed Solinoid is energized - MCB Enable	Left Engine Mid Compression Bypass Bleed Bolinoid is energized - MCB Enable	AMG-15 115VAC ØA No. 2 to the Power Switching Unit and Armament Panel = 115VAC ØA Ess. No. 1 Bus energized	AWG-15 ll5VAC ØM No. 1 to the Power Switching Unit = ll5VAC ØM Ess. No. 1 Bus energized	AWG-15 115VAC ØB No. 1 to the Power Switching Unit = 115VAC ØB Ess. No. 1 Bus energized	AWG-15 119VAC ØB No. 2 to the Power Switching Unit = 115VAC ØB Ess. No. 1 Bus energized	AMG-15 115VAC ØC No. 1 to the Power Switching Unit = 115VAC ØC Ess. No. 1 Bus energized	AWG-15 115VAC ØC No. 2 to the Power Switching Unit = 115VAC ØC Ess. No. 1 Bus energized	Emerg Jett CMD No. 2 (28VDC) = Emerg Jett Stores Push Button Switch Depressed <u>and left or</u> Right MG Weight is not on Wheels
7	Reference Drewings	IWSFD F1g. 16 Zone 3A, 15C	IMBED F16. 16 Zone 1C, 58, 17A, 18A	IMBFD F1g. 16 Zone 1C, 5B, 17A, 18A	IMBFD F1g. 16 Zone 4C, 5C	IMSFD Fig. 16 Zone 4C, 5C	IMSPD F1g. 16 Zone 4C, 5C	IMSFD F1g. 16 Zone 4C, 5C	IMSPD F1g. 16 Zone 4C, 5C	IMSPD F1g. 16	1WSPD F16. 16 2one 1B, 2C, 3B, 4B, 5B
9	Special Considerations	Left Main Bus	bus No. 2 Bus bos Requires 5 Sec Holding after Enable Term Goes False	a) Ess. No. 2 Bus c) Requires 5 Sc Holding After Enable Term Goes False	Ess. No. 1 Bus	Ess. No. 1 Bus	Ess. No. 1 Bus	Ess. No. 1 Bus	Ess. No. 1 Bus	Ess. No. 1 Bus	a) Ess. No. 1 Bus b) Momentary Switch mast Contain Logic Lockup for > 10M Sec
•	Bus/Load Management Priority	3	α	N	1	1	-	-	-	1	-
	Solid State Controller List Cross Reference	139	040	041	टभर	143	144	145	146	147	947
е	Transducer List Cross Reference	N/A	946	076	N/A	N/A	N/A	N/A	N/A	N/A	002 102 007
~	Boolean Equation	AGL139	KC1140 = KC3076	KCL141 = KCS076	ALG142	AGL143	AGETFF	AGL145	AGL146	AGL147	441.148 - 445.77 • GB5.02
-	Table Item #	139	140	141	142	143	144	145	346	147	148
	3 4 5 6 7	2 3 km 5 6 7 Solid State Bus/Load Transducer Controller Bus/Load List Cross List Cross Heference Reference Referenc	Solid State Solid State Disa/Load Priority Considerations Beference Priority Busing STAS and 6 to the Power Builtching Unit Disa/Load Disa/Loa	Tanaducer Tanaducer Controller Paragement Considerations Bear Cross Basin State Constant Constant Constant Considerations Bear Cross Priority Considerations Bravene Bravings Bravene Brave	Paristra Paristra	Transducer Solid Bare Controller Considerations Exercise England England	Trunsducer	Transducer Decirol State Decirol State	Paris Pari	Transluce Countain Principal Bartone Countain Devision Devision	Transler Transler Salid Market Salid Market

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FIGURE 16 SHEET 3	•	Rquetion Description & Notes	ACM Encounter Mode Select (28VDC) = ACM Switch On		Emerg Jett CMD No. 1 (28VDC) = Left or Right MLG Weight is not on wheels and Emerg Jeft Stores Push Button Switch Depressed		Emerg Stores Jett Push Button Switch Lamp On (28VDC) = Emerg Stores Jett Push Button Depressed	AM3-15 (28VDC) and Power Switching Unit (85A2) 28VDC = 28VDC Ess. No. 1 Bus energized		Safety Override (28VDC) to Armament Panel = Armament Safety Override Switch Enabled and MLG Handle-bown and ACM Panel Master Arm-On	MIG HDL DN (28VDC)/Master Arm Select to Armament Panel = MLG Handle-bown and ACM Panel Master Arm- On	MLD HDLUF (28VIC)/Master Arm Select to the Armanent Panel = ML Handle-Up AND ACM Funel master Arm-On	ACM Jettison Select (28VDC) to the Armaments Panel A ACM Jett Paub Button Depressed and (MG Handle-Up) or (ARMT Safety Oride Sattch-Embled and MG Handle-Down and Master Arm Switch-On)
2	7	Reference Dravings	IWSFD Fig. 16 Zone 1B, 2A, 5B		IWSFD Fig. 16 Zone 1B, 3B, 4B, 5B		IWSFD Fig. 16 Zone 4B	IWSFD Fig. 16 Zone 1B, 5B	IMSFD Fig. 16 Zone 1B, 1C	IMSFD Fig. 16 Zone 2A, 3A, 4B, 5B	INSFD Fig. 16 Zone 2A, 3C, 5B	IWSFD Fig. 16 Zone 2A, 3C, 5B	148PD P1g. 16 Zone 2A, 3C ^{li} B, 5B
TABLE III F-14 SOSTEL BOCLEAN EQUATIONS	9	Special Considerations	a) Ess. No. 1 Bus	b) Momentary With > 10MS Lockup	a) Ess. No. 1 Bus	a) Ess. No. 1 Bus	b) Momentary With > 10M Sec Lockup	Ess. No. 1 Bus		Ess. No. 1 Bus	Ess. No. 1 Bus	Ess. No. 1 Bus	Fes. No. 1 Bus
TABLE III P-14 S	5	Bus/Load Management Priority	1		1	1		•		7		4	ī
	4	Solid State Controller List Cross Reference	641		150	151		152		153	154	155	156
	3	Transducer List Cross Reference	976		0002 108 078	077		N/A		052 080 082	052 080	080	9.50 0.78 0.850 0.850 0.852 0.852
	~	Boolean Equation	AMLILY - ANSOTH		AMILISO - GINSOOZ + GINSTOP • AMSO78	AMLIST = AMSO77		AGL152		AGL153 = AMSOBO • GDSO52 • AMSOB2	AGL154 = GDSO52 • AMSO82	AGL155 = GDS052 • AMS082	AM1.56 = AMSOR1 • (JRSOR2 = AMSO/R) • (AMSOR0•G18052 • AMSOR2)
	-	Table Item #	641		150	151		752		153	154	155	84

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MOUNE 16 SHORT 4		Rquetion Description & Notes	Puse Enable (28VDC) to the Armament Panel = ACM Jett Pash Button Mot Depressed and Bang. Stores Jett Fush Button Mot Depressed and Puse Enable INTLA
3	7	Reference Drawings	Zone 58, 24, 48
TABLE III F-14 BOSTEL BOLLEAN BOLATIONS	9	Special Considerations	Ess. Bo. 1 Bus
ZABLE 111 P-14 8	•	Bus/Lond Management Priority	1
	•	Solid State Controller List Cross Neference	
	•	Transducer List Gross Meference	700 400 400
	•	Boolean Equation	ABOTT • ABOTT
	-	Table Item	134

Part					
# Signal Code Signal Code Date of Transport Signal Code	SHEET 1	13 Conditioning Technique	Solid State	Solid State	Solid State
	PTOURE 17		328	359	330
Target Design. Target Design.		11 Reference Drawings	IWSFD Fig. 17 Zone 2A	IWSFD F1g. 17 Zone 2A	17 Zone 24
### Signal to the code Signal to the code Signal to the code Figure Period Transfer Period Transfer Period Transfer Tran		Operational Address	45410	01P25	olP26
Hame, Panetton Code har Identification Origin Type Characteristics for a family factor of the family factor of the family factor of the family factor of the family factor of family factor of family		9 Conventional Switches Being Replaced or Deleted	Target Designate Switch	Target Designate Switch	Switch
Signal destiffer Box Identification Crigin Code Code Bartification Crigin Crigin Code Code Code Code Crigin Crigin Crigin Crigid State Code Crigin Code Crigin Code Code Code Code Code Code Code Code	TRANSDUCERS	Associated Loads	Armament Panel (85Al)	Armsment Panel (85Al)	Parel (65Al)
Signal destiffer Box Identification Crigin Code Code Bartification Crigin Crigin Code Code Code Code Crigin Crigin Crigin Crigid State Code Crigin Code Crigin Code Code Code Code Code Code Code Code	-14 SOSTEL SIGNAL	Present Signal Characteristics	Up = Switched 28VDC Up = Open	DES - Switched 28VDC DES = Open	IM = Switched 28VnC DM = Open
Signal Source Code Mass/Nuction Code Box Identification mate-Up Target Lesign MASS/S Target Designate mate - UES MASS/S Target Lesignate mate - UES MASS/S Target Lesignate mate - UE MASS/S Target MASS/S	TABLE I	frensducer Type	3 Position Slide Switch	3 Position Slide Switch	3 Postton Slide Svitce
Sagnal Identifier Code Target Designate-Up Target Lesignate - UES Target Lesignate - UES Target Lesignate - UES Target Lesignate - UES		5 Point of Origin	Pilots Left Side Console FS225	Pilots Left Side Console PS225	Pilots Left Side Console PS225
Sagnal Mass / Punction Target Designate-Up Target Designate - UES Target Designate - UES Target Designate - UES			Target Designate Switch (8531)	Target Designate Switch (8581)	Switch (8521)
Sagnal Mass / Punction Target Designate-Up Target Designate - UES Target Designate - UES Target Designate - UES		3 Identifier Code	AAS251	AAS 252	AAS253
- 1			Target Designate-Up	Parget Designate - DES	nate - DN
		Pals.	251	252	53

21	Associated Boolean Equations	225	323	72K .	325	356	25	328	628	330
п	Reference Drevings	IMSFD F1g. 17 Zone 3A, 4A	IMSFD F1g. 17 Zone 3A, 4A	IWSFD F1g. 17 Zone 3A, 4A	IWSFD F1g. 17 Zone 6C, 3B, 1B	IWSFD Fig. 17 Zone 5c, 3c, 1B	INSFD F18. 17 Zone 4c, 3c, 2B, 1B	IWSFD Fig. 17 Zone 66, 1A	IWSFD Fig. 17 Zone 6B, 1A	IWSFD F16. 17 Zone 68, 1A
10	Identifier Code	VAL 322	AAL323	AAL 324	AAL325	AAL326	AAL.327	AAL 3 <b< th=""><th>AAL 329</th><th>WF330</th></b<>	AAL 329	WF330
6	Operational	01042	01043	01944	02D36	Q2D3T		02038	950ao	OSPAO
6	Conventional Devices Being Replaced	CB53 (5A) AN/ANN-4 115 VAC ØA (35A5)	CB44 (5A) An/AWW-4 115VAC #B (35A5)	CB50 (5A) AN/AWM-4 115VAC ØC (35A5)	CB28 (5A) Master Arm (36A1)	CB28 (5A) Master Arm (36A1) P/O K1 MLG Handle "E" (Right Glove Relay Box 772A1)	CB4 (5A) MLD Safety RLY No. 1 (36A1) P/O K31 MLD SAF D (R1gh Glove Relay Box 772A1)	CB36 (3A) ACM Panel PWR (36A1)	CB36 (34) ACM Panel PWR (36A1)	CB36 (3A) ACM Panel PMR (36Al)
7	P.C. Location									
9	Load Power Dissipation									
5	Duty Cycle	100%	1006	100%						
4	Associated Loads	Power Supply (30Al)	Power Supply (30A1)	Fower Supply (30Al)	Armament Panel (85A1) (NLG Door-Up and Locked Signal)	Armament Panel (85al) (MG HM DW Signel)	Fower Supply (30A1) (INTLK RTN - Signal)	Armament Panel (85Al) (Target Designator Up- Signal)	Armanent Panel (85Al) (Target Designator DES Signal)	Armament Panel (85A1) (Target Designator DR- Signal)
	Reting V & I	V = 115VAC AA I = 5A	v = 115vac ØB I = 5A	v = 115VAC ØC 1 = 5A	v = 28vDC	v = 28vDC	GND/Open			
8	Type of Power Controller	AC - 1 Pole	AC - 1 Pole	AC - 1 Pole	Enable Signal	Enable Signal	Relay Driver	Enable Signal	Enable Signal	Enable Signal V = 28VDC
-	Table Item #	355	323	32	Sã	356	7.5%	328	329	330
	3 4 5 6 7 8 9 10 11	2 3 μ 5 6 7 θ 9 10 11 Type of Fower Reting Reting Daty Power P.C. Conventional Devices Operational Devices Identifier Reference Controller V & I Associated Loads Cycle Disatipation Location Ening Replaced Address Code Drewings	2 pp of Four Controller Specific Reting Associated Loads 5 post Daty (3v2) 6 post Daty (3v2) P.C. Dot Supply (3v3) P.C. Dot Supply (3v3) Conventional Devices Data particular (3v2) P.C. Dot Supply (3v3) Prosertion (3v3) P.C. Dot Supply (3v3) Prosertion (3v3)	1	1	1e Type of factors 3 h 5 h 6 h 7 h θ h 9 h 10 11 1e Type of factors Reting Load P.C. Conventional Devices P.C. Conventional Devices Address 10 h Inspector AC - 1 Pole (controller) V = 115VAC Power Supply (30A1) 100% CB53 (5A) AN/ANA-4 0104k2 AAL322 INSPD Fig. 17 AC - 1 Pole (A = 115VAC Power Supply (30A1) 100% CB44 (5A) AN/ANA-4 0104k2 AAL322 INSPD Fig. 17 AC - 1 Pole (A = 115VAC Power Supply (30A1) 100% CB50 (5A) AN/ANA-4 0104k2 AAL322 INSPD Fig. 17 AC - 1 Pole (A = 115VAC Power Supply (30A1) 100% CB50 (5A) AN/ANA-4 0104k2 AAL323 INSPD Fig. 17 AC - 1 Pole (A = 115VAC Pole (B = 100 (5A) AN/ANA-4 0104k2 AAL324 INSPD Fig. 17 AC - 1 Pole (A = 100 (5A) AN/ANA-4 0104k2 AAL324 INSPD Fig. 17 AC - 1 Pole (B = 100 (5A) AN/ANA-4 0104k2 AAL324 INSPD Fig. 17 AC - 1 Pole (B = 100 (5	1 2 3 4 5 6 7 6 9 10 11 1 2 4 4 1 4 5 6 7 6 7 6 9 10 11 1 2 4 4 1 4 4 1 4 5 6 7 6 7 6 9 10 11 1 2 4 4 1 4 4 1 4 4 6 6 6 7 6 6 7 6 6 7 6 6	1	1	1

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PICURE 17 SHEET 2	ล	Associated Boolean Equations	331	
211	=	Reference Drawings	ISWPD F1g. 17 Zone 6A, 10	Zone 10, 17A
	10	Identifier Code	AAL 331	AGL397
	6	Operational	02041	togge
TABLE II 7-14 SOLID STATE POKER CONTRILLERS AND DRIVERS		Conventional Devices Being Replaced	(36a4)	STA1 and 8 (95A4)
ID STATE PORE	1	P.C. Location		
BLE II P-14 80	•	Load Power Dissipation		
A	5	Duty Cycle	1000	1001
	•	Associated Loads	Armament Panel (85Al) (Target Des- ignator DN-Signal)	Power Switching Unit (65A2) Mech Pusing STA1 and 8
		Rating V & I	v = 28vdc	1 - 7 - 54 1 - 7 - 54
	~	Type of Rower Controller	LC - 1 Pole	DC - 1 Pole
	- -	Pable Ites	331	<i>186</i> 6

-1															
FIGURE 17 SHEET 1	•	Equation Description & Notes	Power Supply (30A1) - 115VAC MA = 115VAC MA Left. Main Bus-energized	Power Supply (30A1) - 115VAC #8 - 115VAC #8 Left Main Bus-energized	Power Supply (30A1) - 115VAC &C = 115VAC &C Left Main Bus-energized	Arament Pauel - NLG Loor Up and Locked Signal = NLG Door-Up and Locked	Armanent Pairel - NLA Hild Down Stignal - MLG Handle - Down	Power Supply (30AL) - INTLK KTN (GND) = Left MLC Weight on Wheels - Not	Armament Panel - Target Designate Up Signal = Target Designate-Up	Armament Panel - Target Designate DES Signal = Target Designate-DES	Armanent Panel - Target Designate IM Signal = Inrget Lesignate-IM	Armament Panel - (AMM-4-28VDC) = 28VDC Left Main Bus energized	Power Switching Unit - (Mech Pusing STA1 and 8) = 26VDC Left Main Bus energized		
껡	7	Reference Drewings	IWSFD F1g. 17 Zone 3A, 4A	IMSFD F1g. 17 Zone 3A, 4A	IMSFD Fig. 17 Zone 3A, 4A	19870 F1g. 17 Zone 6C, 3B, 1B	1WSFD F1g. 17 Zone 5C, 3C, 2B	INSPD F18. 17 Zone 4c, 3c, 2b, 58	IMSFD F1g. 17 Zone 6B, IA	IMSFD F1g. 17 Zone GB, 1A	INSPD F1g. 17 Zone 6B, 1A	14SFD F1g. 17 Zone 6A, 10	IMSFD Fig. 17 Zone 1C, 17A		
TABLE III P-14 SOSTEL BOLLEAN EQUATIONS	9	Special Considerations	Left Main Bus	Left Main Bus	Left Main Bus	Ess. No. 1 Bus	Ess. No. 1 Bus	Ess. No. 1 Bus	Ess. No. 1 Bus	Eus. No. 1 Bus	Ess. No. 1 Bus	Left Main Bus	Left Main Bus		
TABLE III F-14 S	•	Bus/Load Management Priority	3		9		-		-	,		3			
	,	Solid State Controller List Cross Reference	255	323	ħŽ.	â	×.	757	328	82	330	331	397		
		Transducer List Cross Reference	V/N	N/A	N/A	800	052	200	253	252	253	м/м	N/A		
	8	Boolean Equation	WT355	VAL323	AAL324	ML325 - GJS202	AAL326 = G16052	AL 327 = GDS002	AAL328 = AAS251	AAL329 = AAS252	AAL330 = AAS253	AAL331	AGL 397		
	-	Table Item #	322	253	Ž,	á	8	327	83.	329	330	331	391		

660			
13 Conditioning Technique	Solid State	Resistor Divider Adapter	Besistor Divider Adapter
12 Associated Boolean Equation	333	336	337
11 Reference Drawings	INSFD F1g. 18 Zone 2C	IMSFD F1g. 18 Zone 8C	18 Zone &c
10 Operational Address	orP27	02120	таа
9 Conventional Switches Being Replaced or Deleted	Cage-Seam Switch	N/A	ж/л
8 Associated Loads	Armament Panel (85Al) (Gun Cage Command 28V)	Armament Panel (85Al) (Gun Select 28VDC)	Panel (65Al)
7 Present Signal Characteristics	Cage-Seam a Switched 28VDC Cage-Seam not = Open	Gun = Switched 28VDC Off = Open	Depressed * Svitched 26VDC Depressed Not - Open
6 Trensducer Type	Push Button Switch	4 Position Switch	Double Gauged Push Button
Point of Origin	Pilots Left Side Console FS225	Pilots Cockpit FS225	Plots Cocket F2225
4 Signel Source Box Identification	Throttle Quadrant (711A1) - Cage- Seam Switch	Control Stick (20A4) Hand Grip (20A4A2)	Control Stick (2044)
3 Ident'fler Code	AIG254	ADS255	A1825 6
2 Signal Name/Punction	Cage-Sean	Weapon Selector- Gun	Weapon Trigger- Depressed
Table Ite	254	555	%
	Signal Identifier Signal Source Point of Transducer Present Signal Mass/Punction Code Box Identification Origin Type Characteristics Loads Replaced or Daleted Replaced Daleted Replaced or Daleted Replaced Daleted	Signal Source Point of Transducer Present Signal Source Present Sou	Signal Substitute Signal Source Point of Transducer Present Signal Associated Source Source Point of Transducer Present Signal Source Present Source

PICURE 18 SHEET 1	21	Associated Boolean Equations	365	333	Æ.	335		336	337		
Š.	=	Reference Drewings	IMSFD F1g. 18 Zone 33C, 2A	IMSFD F1g. 18 Zone 9C, 2C, 1C	IMSFD F1g. 18 Zone 38C, 1B	IMSFD F1g. 18 Zone 1C, 38B 40C, 41C		INSFD F16. 18 Zone 1C, 8C, 98	INSFD F1g. 18 Zone 1C, 8C, 40C, 42B		
	07	Identifier Code	ADL332	ADL333	ADL334	ADL.335		ADL336	ADL 337		
	6	Operational	91010	ozpkz	200090	71010		02043	91010		
TABLE II 7-14 SOLID STATE POWER CONTROLLERS AND DRIVERS		Conventional Devices Being Replaced	CB16 (34) Gun Contr PMR AC (35A1)	CB36 (3A) ACM PML PMR (36A1)	CB35 (7.5A) Gun Armed PMR (36A4)	CB41 (154) Gun CLR/Gun Contr PAR DC (36A4)		CB31 (5A) ANG-15 DC (36A1)	(36A1)		
LID STATE POAR	7	P.C. Location									
DE 41-1 II 37HV	9	Load Power Dissipation									
a	5	Duty	1001		100\$	100\$	100%				
	2	Associated Loads	Gun Controller (31A1) (115VAC ØB Power)	Armament Panel (85A1) (Gun Cage CMD 28VDC)	Fower Switching Unit (85A2) (Gun Arm 28VDC)	a) Gun Controller (TLA1) (Gun Clear/Gun Con- trol 28VDC)	b) Purging Switch- ing Assembly (31A8) (Gum Con- trol 28VDC)	Armament Panel (85Al) (Gun Select 28VDC)	Purging Switching Assembly (31A8) (Trigger Interrupt Enable 28VbC)		
		Reting V & I	v = 115vac pb I = 3A	v = 28VDC	v = 28vbc I = 7.5A	v = 28vbc I = 15A		V = 28VDC	v = 28vDc		
	N .	Type of Power Controller	AC - 1 Pole	Enable Driver	DC - 1 Pole	DC - 1 Pole		Enable Driver V	Enable Driver		
	-	Table Item #	335	333	334	335		336	337		

1									
PTOURE 18 SHEET 1	8	Rquation Description & Notes	Gun Controller (31A1) 115VAC ØB FWR = 115VAC ØB Bus energized	Armament Panel - Gun Cage CMD 28VDC - Cage-Seam	Power Switching Unit (85A2) - Gun Arm 28VDC = 28VDC Right Main Bus energized	Gun Controller (3JA1) and Purging Switching Assembly (3JA8) - Gun Clear/Gun Control 28WDC = 28WDC Right Main Bus energized	Armament Panel (85Al) - Gun Select 28VIC = Weapon Selector - Gun	Purgine Svitching Assembly (31A8) - Trigger Interupt 28VDC = Weapon Selector - Gun <u>and</u> Weapon Trigger - Depressed	
2	7	Reference Drawings	IWSFD F1g. 18 Zone 33C, 2A	IMSFD F1g. 18 Zone 9C, 2C, 1C	IMSFD Fig. 18 Zone 39C, 1B	IMSPD Fig. 18 Zone 1C, 38B, 4oC, 41C	IMSFD F1g. 18 Zone 1C, 8C, 9B	IMSPD F1g. 18 Zone 1C, 8C, 4oc, 42B	
TABLE III F-14 SOSTEL BOOLEAN EQUATIONS	9	Special Considerations	R. Main Bus	Ess. No. 1 Bus	R. Main Bus	K. Main Bus	Ess. No. 1 Bus	Ess. No. 1 Bus	
TABLE III F-14 S	\$	Bus/Load Management Priority	3	1		8	1	1	
	4	Solid State Controller List Cross Reference	332	333	334	335	336	337	
	٣	Transducer List Cross Reference	N/A	254	N/A	N/A	255	255 256	
	~	Boolean Equation	ADL332	ADE333 = ADS254	ADL334	ADL335	ADL336 = ADS225	ADL337 = ADS255 • ADS256	
	-	Table Item #	332	333	334	335	336	337	

PIGURE 19 SHEET 1	13 Conditioning Technique	HESISTOR DIVIDER ADAPTER	HESSI STOR DIVIDER ADAPTER	RESISTOR DIVIDER ADAPTER	RESISTOR DIVIDER ADAFTER	RESISTOR DIVIDER ADAPTER	RESISTOR DIVIDER ADAPTER
FIGURE 19	12 Associated Boolean Equation	340 341	3. E. 3.	352	346 347	379	380
	11 Reference Drawings	INSFD FIG 19 ZONE 19A, 57A	INSED FIG. 19 20NE 19A, 57A	INSFD FIG. 19 ZONE 20A, 57A	INSED FIG. 19 ZONE ZOA, 57A	IWSPD FIG. 19 ZONE 8B	INSP) FIG. 199 20NB 8A
	10 Operational Address	очьот	04P08	07721	Offi22	92P22	१ स्थळ
	9 Conventional Switches Being Replaced or Deleted	м/ А	N/ A	٧/٣	N/A	N/A	N/A
TRANSDUCERS	8 Associated Loads	K40 - STA 1A FWR GND INTERLOCK (LEPT GLOVE RELAY BOX 7731)	K41 - STA 1B FWR GND INTERLOCK (LEFT GLOVE RELAY BOX 773A1)	KHO - STA BA FWR GND INTERLOCK (RIGHT GLOVE RELAY BOX 772A1)	K41 - STA 8B PWR GND INTERLOCK (RIGHT GLOVE RELAY BOX 772A1)	ARMAMENT PANEL (85A1)	ARMARENT MARTEL (BSA1) (ARH-9 STATION SELECT 28 VIR)
TABLE I F-14 SOSTEL SIGNAL TRANSDUCERS	7 Present Signal Characteristics	GND = SIDEMINDER KWO - STA DA LA ONDORNO OPEN = NOT ON INTERIOCK BOARU RELAY BOX 773A1)	GND = SIDENINDER K41 - STA 118 118 ON BOARD PAR GND INTERLOCK (1287 GLOVE RELAY BOX 773A1)	GND = SIDEMINDER K40 - STA 8A 8A ON BOARD PAR OND OPEN = NOT ON INTERIOCK RIGHT GLOVE RELAY BOX 772A1)	GND = SIDEMINDER K41 - STA 8B 8B ON BOARD PAR GND OFEN = NOT ON INTERIOCK BOARD RELAY BOX 772A1)	SW = 28 VDC OFF = OPEN	DEPRESSED - OFEN
TABLE I	6 Trensducer Type	SIDEMINDER 14. GND	SIDEMINDER 1B GND	KUCHT WING SIDEMINDER FS 560 BA GND BL 120	RIGHT WING SIDEMINDER FS 560 8B GND BL 120	THE POSITION SM = 28 VIC.	Р ИЗН Б ИТТОМ
	5 Point of Origin	LEPT WING PS 560 BL 120	12PT VING FS 560 BL 120	KIGHT WING F3 560 BL 120	RIGHT WING FS 560 BL 120	PILOTS CENTER CONSOLE FS 225	FILOT'S CENTER CONSOLE FS 225
	Signel Source Box Identification	OUTBOAKO SIDEMINDER	STATION 1B INBOARD SIDEMINDER	STATION BA OUTBOARD SIDEMINDER	STATION BB INFOARD SIDEMINDER	CONTROL STICK (20A4) HAND GRIP (20A-YAS)	COMPOL STICK (COAH) HAND GRIF (COAHAZ)
	3 Identifier Code	AGS 257	AGS 258	AGS 259	AGS 260	YAS 279	YAS 280
	2 Signal Name/Punction	STATION IA SLOBMINDER - FWR INTLK (28 VGC RTN)	STATION 1B SIDEMINDER -PWR INTLK (28 VDC RTN)	STATION BA SIDEMINDEN - PWR INTLK (28 VLC RTN)	STATION 8B SIDEMINDER - PAR INTLK (28 VDC RTN)	WKAPON SELECTOR	MAL STEPPING SM-DEPRESSED
	Pable Item	257	9 50	259	98	579	982

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ส	Associated Boolean Equations	338	339	340	343	2 1 16	34.3	344	345
=	Reference Drewings	IMSPD PIG.19 ZONE 3C, 19C	INSPD FIG.19 ZONE 3C, 19C	INSED FIG. 19 ZONE 3C, 19A 38B, 57A	INSPD FIG. 19 ZONE 4A, 19A 38A, 57A	IWSFD FIG. 19 ZONE 3C, 19A 43B, 57A	IMSPD FIG. 19 ZONE 3C, 20A 50B, 57A	INSPD FIG. 19 20NE 3C, 20A 50B, 57A	INSED FIG. 19 ZONE '49, 20A 50A, 57A
07	Identifier Code	AGL 338	AGL 339	AGL 340	AGL 341	AGL 342	AGL 343	AGL 344	AGE 345
6	Operational	60603	40890	10890	20080	08603	1 0000	50860	90890
8	Conventional Devices Being Replaced	CB24 (5A) STA 1 AIM-9 COOL FWR (36A4)	CEC1 (5A) STA 8 AIM-9 COOL PUR (36A4)	CB26 (10A) STA 1A AIM-9 FWR (36A4) P/O K40 - STA 1A (1EFT GLOVE RELAY BOX 773A1)	CB14 (3A) STA 1A AIM-9 PWR PH B (35A1) P/O K40 - STA 1A (LEFT GLOVE RELAY BOX 773A1)	CB25 (10A) STA 1B AIN-9 FWR (36A4) P/O K41 - STA 1B (1EFT GLOVE RELAY BOX 773A1)	CB12 (3A) STA 1B AIM-9 FWR PH B (35A1) P/O K41 - STA 1B (LEFT GLOVE RELAY BOX 773A1)	CBC3 (10A) STA BA AIM-9 FWR (36A4) P/O K4O - STA BA (RIGHT GLOVE NELAY BOX 772A1)	CB4 (3A) STA BA ARH-9 PAR &B (5AA) P/O K40 - STA BA (HIGHT GLOVE RELAY BOX 772A1)
1	P.C. Location								
9	Load Power Dissipation								
•	Duty	1001	1001						
,	Associated Loads	POWER SWITCHING UNIT (85A2)	POWER SWITCHING UNIT (85A2)	SIDEMINDER LAUNCHER (STATION 1A OUTBOARD)	SIDEMINDER LAUNCHER (STATION LA OUTBOARD)	SIDEMINDER IAUNCHER (STATION 1B INBOARD)	SIDEMINDER LAUNCHER (STATION 1B INBOARD)	SIDEMINDER LAUNCHER (STATION BA OUTBOARD)	SIDEMINIER LAUNCHER (STATION BA GUTBOARD)
•	Rating V & I	V= 28 VDC I= 5A	V- 28 VDC I- 5A	V= 28 VDC I= 10A	V= 115 VAC ØB I= 3A	V= 28 VDC I= 10A	V= 115 VAC 0C 1= 3A	V= 28 VDC I= 10A	v= 115 vac va I= 3a
N	Type of Power Controller	DC-1 POLE	DC-1 POLE	ic-1 Pole	AC-1 POLE	IC-1 FOLE	AC-1 POLE	K-1 POLE	AC-1 POLE
7	Table Ites /	336	339	340	341	342	£.	344	345
	II OI 6 8 6 1 8 1 1 1 1 1 1 1 1	2 3 4 5 6 7 8 9 10 11 Type of Power Power Controller V & I Associated Loads Cycle Distribution Location Being Replaced Address Code Drevings Code Dr	2 3 4 5 6 7 8 9 10 11 Proper Proper Controller V & I Associated Loads 100fs 100fs 12 12 12 12 13 13 14 15 15 18 14 15 18 14 16 15 14 16 15 14 16 15 14 16 15 14 16 16 16 16 16 16 16	2 3 4 5 6 7 8 9 10 11 Pape of Phote P.C. Load Phote P.C. Conventional Devices Address Code Protrict Controller Valid Code Code Protrict Code Protrict DC-1 FOLE Valid Code Protrict Code Code Protrict DC-1 FOLE Valid Code Protrict Code Protrict DC-1 FOLE Valid Code Protrict Code Protrict DC-1 FOLE Valid Code Protrict Protrict Protrict Protrict DC-1 FOLE Valid Code Protrict Protrict Protrict DC-2 FOLE Protrict Pro	Type of Rating	Pype of Paring Photo Pho	Page of Power Page of Powe	Post	Part Part

11 12 Befrence Associated Drawfage Associated Colored Equations NUMBER 975, 20A 558, 558 NUMBER 15, 15 NUME	
71. 11. 11. 12. 13. 14. 15. 15. 15. 15. 15. 15. 15. 15. 15. 15	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
10 10 10 10 10 10 10 10 10 10 10 10 10 1	
Operational Address Objects Objects Objects Objects Objects	
Load P.C. Conventional Davices Diesipation Location Bring heplaced CREZ (LOA) STA 8B AIN-9 FUR (\$56A) P(0 KM - STA 8B AIN-9 FUR (\$56A) TTZA-1) CREZ (LOA) STA 8B AIN-9 FUR (\$15A) FUR KM - STA 8B AIN-9 FUR KM - STA 8B AIN-15 EC (\$5A) CB3 (\$5A) AIN-15 EC (\$5A)	
7 7 P.C. Location	
6 Cond Power Diseases in Folia	
but of open	
Associated Loads SIDEMINDER LAUNCHER (STATION BE INBOARD) ARMANENT PANEL (SSA.) (A.M9 SELECT 28 VIC) (A.M9 STATION SELECT 28 VIC) (A.M9 STATION SELECT 28 VIC)	
3 1 1 1 1 1 1 1 1 1	
Type of Reting Controller V & I I DC-1 FOLE V- 115 VA AC-1 FOLE V- 115 VA ENABLE DRIVER V- 28 VDC ENABLE DRIVER V- 28 VDC	
379 379	

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FIGURE 19 SHEET 1	•	Mquation Description & Motes	POMER SATTCHING UNIT (85A2) - STATION 1 COOL PAR (28 VDC) = 28 VDC RIGHT MAIN BUS EMENGIZED	FOWER SMITCHING UNIT (85A2) - STATION 8 COOL FWR (28 VDC) = 28 VDC RIGHT MAIN BUS ENERSIZED	SIDMINEN LAUNCHER (STATION LA OUTBOARD) - STA-LA 28 VDC RWA = STATION LA SIDMINDER - PUR INTLA (28 VDC KTR) (SIDMINDER LA ONBOARD)	SIDMINER LAUNCHER (STATION IA OUTBOARD) - STA-LA 115 VAC 6B = STATION LA SIDMINDER - PUR INTLA (28 VDC RTM) (SIDMINDER LA ONDOARD)	SIDEMINER LAUNCHER (STATION 18 INBOARD) - STA-18 - 28 voc fur = Station 18 Sideminder - Fur Intik (28 voc ktr) (Sideminder 18 ondoard)	SIDEMINIER LAUNCHER (STATION 1B INBOARD) - STA-1B 115 VAC &C = STATION 1B SIDEMINDER - PAR INTIK (28 VIC ÉTN) (SIDEMINIER 1B ONBOARD)	SIDMINER LAUNCHER (STATION BA OUTBOARD) - STA-BA 28 VDC PAR = STATION BA SIDMINDER PAR INTIX (28 VDC KTN) (SIDMINDER BA ORBOARD)	SIDANINER LAUNCHER (STATION BA OUTBOARD) – STA-BA 115 VAC _g b = STATION BA SIDANINDER-PAR INTIK (28 Vic Fty) (SIDANINIER BA ONBOARD)	SIDÉMINER LAUNCHER (STATION BE INBOARD) - STA-BE 28 VIC FUR = STATION BE SIDEMINDER - FUR INTIK (28 VIC FUR) (SIDEMINIER BEONDOARD)	SIDMINDER LAUNCHER (STATION BE IMBOARD) - STA-BE 115 VAC &C = STATION BE SIDMINDER - PAR INTLA (28 VIC FTN) (SIGMINDER 8B OMEOARD)	ARMARENT PANEL - AIM-9 SELECT 28 VDC - WEAFON SELECTOR - SM	ANAMENT FAMEL - AIM-9 STATION SELECT 28 VIC = MSL STEPTING SM - DEPRESSED	
21	2	Reference Drawings	IWSFD FIG. 16 ZONE 3C, 19C	IMPSD FIG. 16 ZONE 3C, 19C	INSPD FIG. 19 ZONE 3C, 19A 38 B, 57A	INSPD FIG. 19 ZONE 4A, 19A 38A, 57A	INSFD FIG. 19 ZONE 3C, 19A 43B, 57A	TWSFD FIG. 19 ZONE 4B, 19A 43B, 57A	IMSFD FIG. 19 ZONE 3C, 20A 50B, 57A	INSFD FIG. 19 ZONE 48, 20A 50A, 57A	INSFD FIG. 19 ZONE 3C, 20A 55B, 57A	INSPD FIG. 19 ZONE 4B, 20A 55A, 57A	IWSFD FIG. 19 ZONE 1C, 8B, 9A	INSPD FIG. 19 ZONE 1C, 8A, 9B	
TABLE III F-14 SOSTEL BOCLEAN BOLATIONS	9	Special Considerations	R. MAIN BUS	R. MAIN BUS	R. MAIN BUS	ESS. NO. 1 BUS	R. MAIN BUS	R. MAIN BUS	R. MAIN BUS	R. MAIN BUS	R. MAIN BUS	R. MAIN BUS	ESS. NO. 1 BUS	ESS, NO. 1 BHS	
TABLE III F-14	۰	Bus/Load Management Priority	3	3	9	-	3		E .	3	•	e e	1	-	
		Solid State Controller List Cross Reference	336	339	340	34.1	345	£ ₹	77	345	346	7.4	379	980	
	6	Transducer List Cross Reference	N/A	N/A	257	257	258	258	652	259	260	560	279	280	
	CN.	Boolean Equation	AGL 338	AJL 339	AGL 340 - AGS 257	AGL 341 = AGS 257	AGL 342 = AGS 258	AGL 343 - AGS 258	AGL 344 - AGS 259	AGL 345 = AGS 259	AGL 346 - AGS 260	AGL 347 - AGS 260	YAL 379 - YAS 279	YAL 380 = YAS 280	
	-	Table Item #	338	339	340	34.1	342	343	344	345	346	742	379	380	

13 Conditioning Technique	EXTERNAL SIGNAL ADAPTER	EXTERNAL SIGNAL ADAPTER	EXTERNAL SIGNAL ADAPTER	EXTERNAL SIGNAL ADAPTER	EXTERNAL SIGNAL ADAPTER	EXTERNAL SIGNAL ADAPTER	EXTERNAL SIGNAL ADAPTER	EXTERNAL SIGNAL ADAPTER
Associated Boolean Equation	348 349 350	352	382 33	354	98.88	88 88 85 88	35.75.83	33.23.23.23.23.23.23.23.23.23.23.23.23.2
11 Reference Drawings	INSPD FIG. 20 ZONE 64A, 5A	INSPD FIG. 20 20NE 64A, 5A	INSPD FIG. 20 20NE 64A, 5B	IWSPD FIG. 20 ZONE GAB, 5B	IWSPD FIG. 20 ZONE 64A, 50	INSFD FIG. 20 20NE GAB, 5C	INSPD FIG. 20 ZONE 60A, 6C	INSFD FIG. 20 20NE 7A
10 Operational Address	ठाकाट	07013	ormi	O7D15	07016	07101.7	07018	05010
9 Conventional Bwitches Being Replaced or Deleted	N/A	N/A	M/A	И/А	м/А	N/A	N/A	м/А
8 Associated Loads	K45-STA 4 AIM-7 PWR (RIGHT GLOVE RELAY BOX 772A1)	K46-STA 5 AIM-7 PWR (RIGHT GLOVE RELAY BOX 772A1)	Kui,-STA 3 AIM-7 PWR (RIGHT GLOVE RELAY BOX 772A1)	K47-STA 6 AIM-7 PWR (RIGHT GLOVE RELAY BOX 772A1)	K43-STA 1 AIM-7 FWR (RIGHT GLOVE RELAY BOX 772A1)	K48-STA 8 AIN-7 PWR (RIGHT GLOVE RELAY BOX 772A1)	K49-MSL AUX (RIGHT GLOVE RELAY BOX 772A1)	K51 - AIN 54 HTR PAR (LEFT GLOVE RELAY BOX 773A1)
7 Fresent Signal Characteristics								
6 Transducer Type	RELAY DRIVER SIGNAL	RELAY DRIVER	RELAY DRIVER SIGNAL	RELAY DRIVER SIGNAL	RELAY DRÍVER SIGNAL	RELAY DRIVER SIGNAL	RELAY DRIVER SIGNAL	RELAY DRIVER SIGNAL
Point of Origin	09h S.4	PS 460	PS 460	FS 460	FS 460	P3 460	FS 460	PS 460
81gpel Source Box Identification	LOGIC TIMING CONTROL C-90341/ ANG-9 (27A24A3) (720)	LOGIC TIMING CONTROL C-90341/ ANG-9(27A24A3) (720	LOGIC TIMING CONTROL C-90341/ ANG-9(27A24A3) (720	LCGIC TIDING CONTROL C-90341/ ANG-9(27A24A3) (720)	LOGIC TIMING CONTROL C-90341/ ANG-9(27A24A3) (720)	LOGIC TIMING CONTROL C-90341/ ANG-9(27A24A3) (720)	LOGIC TIMING CONTROL C-90341/ANG-9 (27A24A3) (720)	WEAPON CONTROL SYSTEM AN/ANG-9 AND AIM 54 LIQUID COOLING SYSTEM
3 Identifier Code	AGS 261	AGS 262	AGS 263	AGS 264	AGS 265	AGS 266	AGS 267	AGS 268
81gmal	STA 4 ADS-7 PVR - ENABLE	STA SF AIM-7 FWR - EMABLE	STA 3F AIM-7 PWR - ENABLE	STA OF ADA-7 PUR - ENABLE	STA 1B AIM-7 PWR - ENABLE	37A 8B AIN-7 PWR - ENABLE	MSL AUX PWR ENABLE	HTR PMR - ON
The real	261	38	563	1 000	592	8	267	98
	2 3 4 10 11 12 12 14 15 15 15 15 15 15 15 15 15 15 15 15 15	Signal Source Signal Source Point of Transducer Present Signal Associated Point of Transducer Present Signal Present Signal Point of Transducer Point of T	Signal Gode Boar Identification Origin Print of Transducer Present Signal Dearted or Daleton Deart	Signal Source Signal Source State Stat	State Stat	Signat Signat Buller Sig	State Stat	Hard Compaction Control Compaction Control Compaction Control Control

FIGURE 20 SHEET 2	13 Conditioning Technique	EXTERNAL SIGNAL ADAPTER	EXTERNAL SIGNAL ADAPTER	EXTERNAL SIGNAL ADAPTER	EXTERNAL SIGNAL ADAPTER	EXTERNAL SIGNAL ADAPTER	EXTERNAL SIGNAL ADAPTER	EXTERNAL SIGNAL ADAPTER	RESISTOR DIVIDER ADAPTER
FIGURE 20	12 Associated Boolean Equation	383	391	35.55	393	387	38,88	88838	361
	11 Reference Drawings	INSPD FIG. ZONE 600	INSPD FIG. 20 ZONE 60C	INSPD FIG. 20 ZONE 60C	INSED FIG. 20 ZONE 60C	INSPD FIG. 20 ZONE 60C	INSPD FIG. 20 20NE 60C	INSPD FIG. 20 ZONE 20C	INSPD FIG. 20 20NE 20
	10 Operational Address	11050	oSDIS	05013	міч	05015	91050	71dSo	\$5450
	9 Conventional Bwitches Being Replaced or Deleted	N/A	N/A	м/м	N/A	N/A	٧/٧ ٠	N/A	м/ А
TRANSDUCERS	8 Associated Loads	K45-STA 1 AIM-7 BTRY (LEFT GLOVE RELAY BOX 773A1)	K46-STA 3 (LEFT GLOVE RELAY BOX 773A1)	K47-STA 4 AIM-7 BTRY (LEFT GLOVE RELAY BOX 773A1)	K48-STA 5 AIM-7 BTRY (LEFT GLOVE RELAY BOX 773A1)	K49-STA 6 AIM-7 BTRY (LEFT GLOVE RELAY BOX 773A1)	K50-STA B AIM-7 BTRY (LEFT GLOVE RELAY BOX 773A1)	FOWER SMITCHING UNIT (85A2)	PANEL (85AL)
TABLE I P-14 SOSTEL SIGNAL TRANSDUCERS	7 Present Signal Characteristics								PH SP-SMITCHED 28 VDC
TABLE 1	6 Trensducer Type	RELAY DRIVER SIGNAL	KELAY DKIVER SIGNAL	KELAY DRIVER SIGNAL	RELAY DRIVER SIGNAL	RELAY DRIVER SIGNAL	RELAY DRÍVER SIGNAL	ENABLE	1 POLE 4 POSITION SMITCH
	Point of Origin	09t S.J	PS 460	FS 460	FS 460	PS 460	FS 460	NFO LEFT VERTICAL CONSOLE FS 300	PILOT'S CENTER CONSOLE FS 225
	81gmel Source Box Identification	LOGIC TIMING CONTHOL C-90341/ANG-9 (27A24A3) (720)	LOGIC TDMING CONTROL C-90341/ANG-9 (27A24A3) (720)	LOGIC TIMING CONTROL C-90341/ANG-9 (27A24A3) (720)	LOGIC TIMING CONTROL C-90341/ANG-9 (27A24A3) (720)	LOGIC TIMING CONTROL C-90341/ANG-9 (27A24A3) (720)	LOGIC TIMING CONTROL C-90341/ANG-9 (27A24A3) (720)	(85a1)	CONTROL STICK (2044) HAND GRIP (2044A2)
	3 Identifier Code	Ads 269	AGS 270	AGS 271	AGS 272	AGS 273	AGS 274	AGS 275	YAS 281
	2 Signal Name/Punction	STA 1B AIN-7 BATTERY-ARM AND HYDR-ENABLE	STA 3F AIN-7 BATTEKY-ARM AND HYDR-ENABLE	STA 4F ADA-7 BATTEKY-ARM AND HYDR-ENABLE	STA 5F AIN-7 BATTERY-AIM AND HYDR-ENABLE	STA OF AIM-7 BATTEKY-AIM AND HYDR-ENABLE	STA 8B AIN-7 BATTERY-ARM AND HYDR-ENABLE	AIM-7 MOTOR FIRE-SEL	WEAPON SELECTOR SW-PH SP
	Table Ite	598	270	TL2	272	273	274	275	281

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ส	Associated Boolean Equations	348	6 18 .	320	321	35	353	354
п	Reference Drewings	INSPD FIG.20 ZONE 1A, 5A 64A, 27B	INSPD FIG.20 ZONE 2A, 5A 64A, 27B	IMSFD FIG.20 ZONE 3A, 5A 64A, 27B	INSFD FIG.20 ZONE 1A, 5A 64A, 28B	INSPD FIG.20 ZONE 2A, 5A 64A, 27B	INSED FIG.20 ZONE 3A, 5A 64A, 27B	INSPD FIG.20 ZONE LA, 5B 25B, 64A
01	Identifier Code	AGL 348	AGL 349	AGL 350	AGL 351	AGL 352	AGL 353	AGL 354
٥	Operational	60890	08610	11000	08015	08013	08914	08915
	Conventional Devices Being Replaced	CB47 (15A) STA 4/5 AD4-7 PH A (35A5) P/O KM5 STA 4 AD4-7 RAGHT GLOVE RELAY BOX 772A1)	CB45 (15A) STA 4/5 AIN-7 PH B (35A5) P/O KN45 STA 4 AIN-7 PANR (KIGHT GLOVE RELAY BOX 772A1)	CB4.1 (15A) STA 4/5 AIN-7 PH C (35A5) P/O K45 STA 4 AIN-7 HWR (HIGHT GLOVE RELAY BOX 772A1)	CB47 (15A) STA 1/5 AIN-7 PH A (35A5) PJO KNG STA 5 AIN-7 PAIN (MGHT GLOVE RELAY BOX 77241)	CB45 (15A) STA 4/5 AIN-7 PH B (35A5) P/O KW6 - STA 5 AIN-7 HAIR (RIGHT GLOVE RELAY BOX 772A1)	CB41 (15A) STA 4/5 ATN-7 FA C (35A5) P/O Kt46-STA 5 ATN-7 HAR (RIGHT GLOVE RELAY BOX 772A1)	CB40 (15A) STA 3/6 AD4-54 FWEP FH A (35A5) P/O KU4-STA 3 AD4-7 FWE (RIGHT GLOVE RELAY BOX 77ZA1)
1	P.C. Location							
9	Load Power Dissipation							
•	Duty							
•	Associated Loads	STA 4F AIM-7 FWR (115 VAC FH A) MSL UNG (STA 4F) 273 P100 (B) - J	STA 4F A IM-7 FWR MSL UMB (STA 4F) 273 P100 (8) - W	STA 4F AIM-7 PWR MSL UMB (STA 4F) 273 PIOO (B) - X	STA 5F AIN-7 PWR MSL UMB (STA 5F) 273 P100 (C)-3	STA 5F AIM-7 PWR MSL UMB (STA 5F) 273 PIOO (3)-W	STA SE AIM-7 PMR MSL UMB (STA SP) 273 P100 (3)-X	v= 115 vac Sta 3F AIM-7 FWR M3L UMB (STA 3F) 273 F100 (A)-3
•	Reting V & I	V= 115 VAC gA	v= 115 va &B	V= 115 VAC. ¢C	V= 115 VAC	v= 115 vac øb	V= 115 VAC ØC	V= 115 VAC ØA
N.	Type of Power Controller	AC-1 POLE	AC-1 FULE	AC-1 POLE	AC-1 FOLE	AC-1 POLE	AC-1 POLE	AC-1 POLE
-	Table Item #	348	34.9	350	351	352	353	354
	2 6 7 8 9 11	2 3 h 5 6 7 8 9 10 11 Type of Power Controller Reting Controller Address Page No. Conventional Davices P.C. Conventional Davices Page No. Distributions Page No. Distributions Page No. Distributions Page No. Page No. <th> Type of Fourth Fo</th> <th> Type of Butle Post Load P.C. Conventional Davices P.C. Data pation Daty Post P.C. Data pation Daty Post P.C. Data pation Daty Post P.C. Data pation Data pat</th> <th> Type of Butta Fower Fo</th> <th> Pare of Pare Paris Pare Pare</th> <th> No. No.</th> <th> The countricate State St</th>	Type of Fourth Fo	Type of Butle Post Load P.C. Conventional Davices P.C. Data pation Daty Post P.C. Data pation Daty Post P.C. Data pation Daty Post P.C. Data pation Data pat	Type of Butta Fower Fo	Pare of Pare Paris Pare Pare	No. No.	The countricate State St

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PTOURS 20 SHEET 2	. 21	Associated Boolean Equations	385	96 .	357	956	359	96
2	п	Reference Drewings	INSPD FIG. 20 20NE 14, 58, 258, 64A	INSPD FIG. 20 20NE 34, 58, 258, 64A	IMSFD FIG. 20 20ME 1A, 5B, 26B, 6AB	INSPD FIG. 20 20NE 2A, 5B, 26B, 64B	INSPD FIG. 20 20NE 34, 58, 268, 648	INSFD FIG. 20 20NE 1A,5B 29, 64A
	01	Identifier Code	ACL 355	No. 356	MGL 357	AGL 358	AGL 359	AGL 360
	6	Operational	98016	71980	9,000	61090	02000	1996
TABLE II F-14 SOLID STATE POWER CONTROLLERS AND DRIVERS	8	Conventional Devices Being Replaced	CB36 (15A) STA 3/6 ADE-7/ADE-54 FURE PA B (35A5) P/O K44 - STA 3 ADE-7 WITH GLOVE RELAY BOX 772A1)	CB35 (15A) STA 3/6 HWF PH C (15A5) P/O KUM - STA 3 AIM-7 PHOF GLOVE RELAY BOX 772A1)	CB40 (15A) STA 3/6 AB-7/AB-54 PURP HA (1985) P/0 K47 - STA 6 AB-7 PBH (NIGHT GLOVE RELAY BOX 772A1)	CB39 (15A) 3TA 3/6 APP -7(APP -54 APP -7(APP -54 P/O KUT - 3TA 6 APP - 7RN KHOFT GLOVE RELAY EXT 77241)	CB35 (15A) STA 3/6 HAR-YALP-54 HARB-PH (C (15A5) P/O KU7 - STA 6 AIN-7 WH GLOVE RELAY BOX 772A1)	CB34 (15A) STA 1/8 AIN-7 FH A (35A5) P/O KU3-STA 1 AIN-7 FWR (RIGHT GLOVE RELAY BOX 772A1)
ID STATE PONE	1	P.C. Location						
ME II F-14 SOL	9	Load Fower Dissipation						
A	^	Duty Cycle						
	•	Associated Loads	STA 3P AIM-7 PMR NSL UNB (STA 3P) 273 P100 (A)-W	STR 3F AIN-7 FWR MSL UNB (STA 3F) 273 P100 (A)-X	STA GP AIN-7 FMR MSL VMB (STA GP) 273 F100 (D)-J	STA GF AIN-7 PWR MSL UNB (STA GF) 273 PLOG (D)-W	STA OF AIM-7 FWR MSL UNG (STA OF) 273 F100 (B)-X	STA 18 AIN-7 PUR MSL UMB (STA 18) 782A3P12-J
		Reting V & I	V- 115 VAC	V= 115 VAC ØC	V= 115 VAC	V= 115 VAC #B	V= 115 VAC	V= 115 VAC
	~	Type of Power Controller	AC-1 POLE	AC-1 FOLE	AC-1 POLE	AC-1 FOLE	AC-1 FOLE	AC-1 POLE
	-	Table Item #	355	356	357	358	359	360

								Viene and the second	
PLOURE 20 SHEET 3	21	Associated Boolean Equations	361	39 6 .	363	364	365	36	396
Ĭ	п	Reference Drawings	INSFD FIG. 20 20NE 1B, 58, 29B, 64A	INSPD PIG. 20 20NE 1C, 5C, 29B, 64A	IWSPD FIG. 20 ZONE 1A, 5C, 32B, 64B	IWSFD FIG. 20 20 20NE 1B, 5C, 32B, 64B	IMSPD FIG. 20 ZONE 1C, 5C, 32B, 64B	INSED FIG. 20 20NE 1A, 6C, 34A, 60A	INSPD FIG. 20 ZONE 1B,6C 34A, 60A
	10	Identifier Code	AGL 361	AGL 362	AGL 363	AGL 364	AGL 365	A31. 366	AGL 367
	•	Operational	08022	08923	12080	08025	9856	75000	9789
TABLE II F-14 SOLID STATE POWER CONTROLLERS AND DRIVERS	80	Conventional Devices Being Replaced	CB34 (15A) STA 1/8 A IN-7 FH B (35A5) P/O KH3 - STA 1 AIN-7 PWR (RGHT GLOVE RELAY BOX 772A1)	CES (15A) STA 1/8 AIM-7 PH C (35A5) P/O KM3-STA 1 AIM-7 PHR (KIGHT GLOVE RELAY BOX 772A1)	CB34 (15A) STA 1/8 AIM-7 FH A (35A5) P/O KMB - STA B AIM-7 PHF (RIGHT GLOVE RELAY BOX 772A1)	CB-22 (15A) STA 1/8 AIM-7 PH B (35A5) P.O RMG-STA B AIM-7 PH R (RIGHT GLOVE RELAY BOX 772A1)	CRE9 (15A) STA 1/8 AIM-7 PH C (35A5) AIM-7 PH R AIM-7 PH R (RIGHT GLOVE RELAY BOX 772A1)	CBES (10A) MSL AUX PH A (35A5) P/O K49 - MSL AUX (RIGHT GLOVE RELAY BOX TTEA1)	CR22 (10A) MSL AUX PH B (35A5) P/O KM9 - MSL AUX (KIGHT GLOVE RELAY BOX 772A1)
ID STATE PORE	7	P.C. Location				•			
क्ष भान्य मा जात	9	Loed Power Dissipation							
A	5	Duty							
	•	Associated Loads	STA 1B ADM-7 FWR MSL UMB (STA 1B) 782A3F12-M	STA 1E AIM-7 PWR MSL UMB (STA 1B) 782AP12-X	STA 8B ADM-7 FWR MSL UMB (STA 8B) 282A 3P12-J	STA 8B ADN-7 PWR MSL UMB (STA 8B) 782A3P12-W	STA 88 A.DH-7 FWR MSL UMB (STA 8B) 786A3F12-X	POWER SUPPLY PP-6675/ANG-9 (27A24A1) (730)	FOWER SUPPLY PP-6675/AWL:9 (27824al) (730)
	•	Anting V & I	v- 115 vad	V= 115 VAC	V= 115 VAC	v= 115 VAC	V= 115 VAC	V=115 VAC QM I= 10M	v=115 vac gB I= 10A
	2	Power Controller	AC-1 POLE	AC-1 POLE	AC-1 FOLE	AC-1 FOLE	AC-1 FOLE	AC-1 FOLE	AC-1 FOLE
	-	Table Item	361	34	363	4	365	*	795

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21	Associated Boolean Equations	<i>19</i> €	696 .	370	37.1	372	373	374
n	Reference Drawings	INSPD FIG. 20 ZONE 1C, 6C 34A, 60A	INSED FIG.20 ZONE 1C, 7A 101A, 105A	IMSPD FIG.20 ZONE IC, 7A 101A	IWSPD FIG.20 ZONE 1B, 7A 93B	1MSFD F1G, 20 20NE 1B, 7A 95A, 97A	INSPD FIG.20 ZONE 1A, 7A 89C	IMSFD FIG.20 ZONE 1A, 7A 91C
10	Identifier Code	AGL. 368	AGL 369	AGL 370	AGL 371	AGL 372	AGL 373	AGL 374
6	Operational	62080	08630	08431	og 035	08433	06034	06035
80	Conventional Devices Being Replaced	CRSO (10A) MSL AUX PH C (35AS) PP/O KH9 - MSL AUX (HIGHT GLOVE RELAY BOX 772A1)	CB42 (15A) MSL HTR PH C (35A5) PYO NS1 - ADN-54 HTR FMR (LEFT GLOVE RELAY BOX	CB42 (15A) MSL HTR PH C (35A5) P/O KS1 AIM-54 HTR FWR (IEPT GLOVE RELAY BOX 77341)	CB43 (15A) MSL HTR PH B (35A5) PYO KS1 - ATH-54 HTR PHR PHR (LEPT GLOVE RELAY BOX 773A1)	CB43 (15A) MSL HTR PH B (35A5) PFO KS1 - AIM-54 HTR PMR (LEPT GLOVE HELAY BOX 773A1)	CB46 (15A) MSL HTR PH A (35A5) PYO MSJ AJM-54 HTR FMR FMR (LEFT GLOVE RELAY BOX 773A1)	CBA6 (15A) MSL HTR PH A (35A5) PYO KS1-AIM-54 HTR PHR (LEPT GLOVE HELAY BOX 773A1)
1	P.C. Location							
9	Load Power Dissipation							
·	Duty Cycle							
•	Associated Loads	FWER SIPPLY PP-6675/AMG-9 (27A24A1) (730)	STA 5R AIM-54 MSL HTR FWR MSL UMB 31-108	STA 64 AIM-54 MSL HTR PMR MSL UMB J1-108	STA 3R ADM-54 MSL HTR PWR MSL UMB J1-108	STA 4R ADN-54 MSL HTR FWR MSL UMB J1-108	STA 1B ADH-54 MSL HTR PAR MSL UMB J1-108	STA 8B AIM-54 MSL HTR FWR MSL 3FB J1-108
8	Reting V & I	V- 115 VAC pc I- 10A	V= 115 VAC	V= 115 VAC	ν= 115 VAC φΒ	V= 115 VAC	V= 115 VAC	V= 115 VAC
cu.	Type of Power Controller	AC-1 FOLE	AC-1 FOLE	AC-1 FOLE	AC-1 POLE	AC-1 POLE	AC-1 POLE	AC-1 FOLE
-	Table Ite.	896	§	370	υs .	372	333	374
	3 4 5 6 7 8 9 10 11	2 3 4 5 6 7 8 9 10 11 Type of Power Power Power Power Power Power Power Controller Power Controller V & I Buty Power Po	1 2 3 4 5 6 7 8 9 10 11	1 2 3 4 5 6 7 8 9 10 11	Type of Butta Float Load P.C. Conventional Devices Spain Daty Load Daty Daty	14	1	1

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21	Associated Boolean Equations	1967	£	. 1	\$	8	286	986
п	Reference Drawings	INSFD FIG.20 ZONE 14A, 3C	IMSPD FIG.20 ZONE 3A, 7B 30B, 60C	INSFD FIG.20 ZONE 3A, TB 25B, 60C	INSPD PIG. 20 ZONE 3A, 7C 26B, 60C	INSFD FIG. 20 ZONE 3B, 7C 27B, 60C	NASTO FIG. 20 ZONE 3B, 7C 26B, 60C	INSED FIG. 20 ZONE 3B, 7B 31C, 60C
og	Identifier Code	YAL 381	AGL 383	4GE 384	AGL 385	AGL 396	AGL 387	AGI. 368
٥	Operational		96436	08437	98638	66090	09890	Objet
•	Conventional Devices Being Replaced	CB11 (5A) AWG-15 DC (36A1)	CELS (10A) H AIM-7 BTHY AIM (36Ab) P/O K45-STA 1 AIM-7 BTHY (LEFF GLOVE REIAY BOX 773A1)	CB15 (10A) R AIM-7 BTRY ARM (36Ah) P/O KM6 - STA 3 AIM-7 BTRY (IEPT GLOVE RELAY BOX 773A1)	CBIS (10A) R AIM-7 FFRY AIM (36A) PFO KIT - STA 4 AIM-7 FFR GLOVE RELAY BOX 773A1)	CBIÉ (10A) L AIM-7 BTRY ARM (36A ¹) PJO RUB - STA 5 AIM-7 PRIPY (LEFF GLOVE HELAY BOX 773A1)	CBL6 (104) L AIM-7 BTRY AIM (36A4) P/O K49 - STA 6 AIM-7 P/O K49 - STA 6 AIM-7 (LEFT GLOVE RELAY BOX 773A1)	CEIG (10A) L. ADH-7 FERT ARR (\$5A) F/O KSO - STA B AIH-7 EFFT GLOVE RELAY BOX 773A1)
7	P.C. Location							
9	Load Power Dissipation							
5	Duty Cycle							
4	Associated Loads	ANNAMENT PANEL (85A1) (MISSILE SELECT 28 VDC)	STA 1B BATTERY ARM (28 VIC.) MSL UMB 782A3F12-J	STA 3F BATTEKY ARM (28 VIC) MSL UNB 273F100(A)	STA 4F BATTEKY ARM (26 VDC) MSL UNB 273P100 (B)-J	STA SF BATTERY ARM (28 VIC) MSL UMB 273P100 (C)-J	STA 6F BATTERY AIM (28 VIC) NISL UNB 273P100 (D)-J	STA ÖB BATTERT ANM (28 VIC) MSL UMB 782A 3F12-J
	Reting V & I	V= 28 VDC	V= 28 VIX	V= 28 VDC	V= 28 VDC	V= 28 VIC	V= 28 VDC	V= 28 VDC
~	Type of Power Controller	ENABLE DRIVER V= 28 VDC	IC-1 FOLE	ic-1 Folg	100 t-20	00-1 POLE	DC-1 FOLE	EC-1 POLE
-	Table Ites	361	. A.	354	£	8	387	388

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PLOUNE 20 SHEET 6	21	Associated Boolean Equations	698	986	166	8
Ĭ.	п	Reference Drawings	IMSPD F1G,20 ZONE 3A, 7A 21B, 22C, 29C 60C	INSPD FIG. 20 ZONE 3A, 8B 21B, 22¢, 60c	INSPD PIG.20 ZONE 34, 8B 21B, 22C, 60C	INSPD FIG. 20 ZONE 3A, 88 2.1B, 22C, 60C 26C
	01	Identifier Code	AGL 389	AGI. 390	AGL 391	96E 198
	6	Operational	28942	08643	4460	089.5
TABLE II P-14 SOLID STATE POWER CONTROLLERS AND DRIVERS	80	Conventional Devices Being Replaced	CB5 (10A) MOTOR PIRE A CB4 (10A) MOTOR FIRE B P/O KM5 STA 1 AIN-T REFU (LEFT GLOVE RELAY BOX 7/3A.1) P/O FOMER SMITCHING UNIT (85A.2)	CES (10A) MOTOR FIRE A CES (10A) MOTOR FIRE B (5AA) P/O KSO STA 8 AIN-7 EFFT CLOVE RELAY BOX (LEFF CLOVE RELAY BOX F/79A1) UNIT (85AZ)	CES (10A) MOTOR FIRE A (26A) MOTOR FIRE B (36A) P/O KMG STA 3 AIN-7 EFF CLOVE RELAY BOX (1.EFF CLOVE RELAY BOX P/O YNER SALTCHING UNIT (85AE)	CBS (10A) MOTOR FIRE A CBM (10A) MOTOR FIRE B (36A) MOTOR FIRE B FIRE STATE OF A LBM-7 FIRE TO CLEAR GLOVE RELAY BOX (12FT GLOVE RELAY BOX FY) OF YOR WENT (185AZ)
ID STATE FOR	1	P.C. Location				
NB E II 7-14 80	9	Load Power Dissipation				
A	4	Duty				
	,	Associated Loads	STA 1B MOTOR FIRE SPARKOW LAUNCHER (STA 1B, 65A3)	STA 8B MOTOR FIRE A AND B SPARKOM LAUNCHER (STA 8B, 85A3)	STA 3F MOTOR FIRE A AND S SVERKOM LAUNCIER (STA 3F) (65A3)	STA GE MOTOR FIRE. A AND B SPARGM LAURCHER (STA GF) (85A3)
	•	Pating V & I	/= 28 VDC	/= 28 VDC	V= 28 VDC	V= 28 VIC
	N	Type of Power Controller	DC-1 POLE	DC-1 POLE	10-1 POLE	DC-170LE
	-	Table Item #	6	<u>8</u>	366	gy.

21	Associated Boolean Equations	393	₹.	395	*
#	Reference Drewings	INSPD FIG.20 ZONE 34, 7C 21B, 22C, 6OC 28C	IMSPD FIG.20 ZONE 3A, 6C 21B, 22C, 6OC,27C	INSPD FIG. 20 ZONE 3A, 34A	INSPD FIG. 20 2.0RE 39, 90C 30.4, 98c, 10cA, 98c
01	Identifier	AGL 393	AGL 354	AGL 395	AOL 396
6	Operational	94680	7.4990	970	64690
8	Conventional Devices Being Replaced	CBS (10A) MOTON FIRE A CB4 (10A) MOTON FIRE B PO P/O KW4 STA 5 AIM-7 BETWY CLOVE NGIAY BOX (1.273A.) P/O WORR SHITCHING UNIT (55AZ)	CES (10A) MOTOR FIRE A CEB (10A) MOTOR FIRE B PYO K47 STA 4 AID-7 EFFR GLOVE RELAY BOX (LEFT GLOVE RELAY BOX F/73A1) F/9 PYO PARES SALTCHING UNIT (85A2)	CBIG (5A) MSL AUX SUB SYS (36A ¹)	(36AL)
7	P.C. Location				
9	Load Power Dissipation				
•	Duty			100¢	
-	Associated Loads	STA SF WOTOR FIRE A AND B SPARROW LAUNCHER (STA SF) (65A3)	STA 4F WOTOR FIRE A AND B SPARRA LAUKCHER (STA 4F) (85A3)	A) POWER SJPPLY PP-6675/ANG-69 (27A24A1) (730) (27A24A2) (710) (2) MISSILE CONTROLLE (27A24A2) (720)	STA 1B, 3R, 4R, 5R, 6R, 6B AN-54 MSL (28 VDC) PROENTC LAUNCHER (766A6)
	Reting V & I	V= 28 VDC	V= 28 VIC	V= 28 VDC I= SA	V= 28 VDC
Q.	Type of Power Controller	DC-1 POLE	DC-1 POLE	DC-1 POLE	DC-1 POLE
-	Table Ites #	393	<u>*</u>	38	366
	11 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 3 4 5 6 7 8 9 10 11 Type of Rating Rescripted Loads Cycle Daty Puer Controller V & I Associated Loads Cycle Dissipation Location Being Replaced Address Code Drawfage	1	1 2 3 4 5 6 7 8 9 10 11	1

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FTGURE 20 SHEET	80	Mquation Description & Notes	STA 4F AIM-7 PVR (115VAC PH A) = STA 4 AIM-7 PVR ENABLE	STA 4F AIN-7 PHR (115VAC PH B) = STA 4 AIN-7 PWR BINBLE	STA 4F AIM-7 FWR (115VAC PH C) = STA 4 AIM-7 FWR ENABLE	STA 5F AIM-7 PHR (115VAC PH A) = STA 5F AIM-7 PHR ENABLE	STA 5F AIM-7 PMR (115VAC PH B) = STA 5F AIM-7 PWR ENGBLE	str 5f alm-7 fnr (115vac fn c) = sta 5f alm-7 fnr Enable	sta 3f ain-7 fur (115vac fh a) = sta 3f ain-7 fur Enable	STA 3F AIN-7 FVR (115VAC PH B) = STA 3F AIN-7 FVR Enable	STA 3F AIM-7 PMR (115VAC PH C) = STA 3F AIM-7 PMR ENABLE	STA 6F AIN-7 PUR (115VAC PH A) = STA 6F AIN-7 PUR ENABLE	STA 6F AIM-7 FMR (115VAC FH B) = STA 6F AIM-7 FMR ENABLE	
21	7	Reference Drawings	IWSPD FIG. 20 ZONE 1A, 3A, 64A, 27B	INSFD FIG. 20 ZONE 2A, 5A, 64A, 27B	INSFD FIG. 20 ZONE 3A, 5A 64A, 27B	IWSFD FIG. 20 ZONE 1A, 5A 64A, 28B	INSPD FIG. 20 ZONE 2A, 5A, 64A, 27B	IWSPD FIG. 20 ZONE 3A, 5A 64A, 27B	TWSFD FIG. 20 ZONE 1A, 5B 64A, 25B	INSPD FIG. 20 ZONE 2A, 5B 25B, 64A	IWSFD FIG. 20 20NE 3A, 5B 25B, 64A	IMSPD FIG. 20 ZONE 1A, 5B 26B, 64B	INSFD FIG. 20 ZONE 2A, 5B 26B, 64B	
TABLE III P-14 SOSTE, BOLLEAN BRUATIONS	9	Special Considerations	L. MAIN BUS	L. MAIN BUS	L. MAIN BUS	L. MAIN BUS	L. MAIN BUS	L. MAIN BUS	L. MAIN BUS	L. MAIN BUS	L. MAIN BUS	L. MAIN BUS	L. MAIN BUS	
TABLE III P-14	•	Bus/Load Management Priority	3		m					e	8	3	m	
		Solid State Controller List Cross Reference	348	349	350	351	355	352	354	355	356	357	358	
	9	Transducer List Cross Reference	261	261	261	562	595	. 562	263	263	263	Ą	564	
	~	Boolean Equation	AGL 348 = AGS 261	AGL 349 = AGS 261	AGL 350 = AGS 261	AGL 351 = AGS 262	AGL 352 = AGS 262	AGL 353 = AGS 262	AGL 354 - AGS 263	AGL 355 = AGS 263	AGL 356 = AGS 263	AGL 357 - AGS 264	AGL 358 = AGS 264	
	-	Table Item	348	349	350	351	352	353	35	355	356	357	356	

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PTGURE 20 SHEET	80	Mquation Description & Motes	STA OF AIM-7 PAIR (115VAC PH C) = STA OF AIM-7 PAIR ENABLE	STA 1B AIN-7 PAR (115VAC PI A) = STA 1B AIN-7 PAR ENABLE	STA 1B AIM-7 PAR (115VAC PH B) = STA 1B AIM-7 PAR ENABLE	STA 1B ADH-7 PMR (115VAC PH C) = STA 1B AIM-7 PMR ENABLE	STA 88 AIM-7 PWR (115VAC PH.A) = STA 88 AIM-7 PWR ENABLE	STA 8B AIN-7 PMR (115VAC PH.B) = STA 8B AIN-7 PMR ENABLE	STA 88 AIM-7 PAR (115VAC PH.C) = STA 8B AIM-7 PAR ENABLE	NSL AUX PMR (115VAC PH.A) = NSL AUX PMR - ENABLE	HSL AUX PAR (115VAC PH.B) = HSL AUX PAR - ENABLE	HSL AUX PWR (115VAC PH.C) - MSL AUX PWR - ENABLE	STA SH AIN-SA MSL HTR PAR - 115VAC FN C = AIN-SA HTR PAR - ON
24	7	Reference Drawings	INSFD FIG. 20 ZONE 3A, 5B 26B, 64B	IWSFD FIG. 20 ZONE 1A, 5B 29B, 64A	INSPD FIG. 20 ZONE 1B, 58 29B, 64A	INSFD FIG. 20 20NE 1C, 5C 29B, 64A	INSFD FIG. 20 ZONE 1A, 5C 32B, 64B	INSPD FIG. 20 ZONE 1B, 50 32B, 64B	INSFD FIG. 20 ZONE 1C, 5C 32B, 64B	INSFD FIG. 20 ZONE 1A, 6C 34A, 60A	INSPD FIG. 20 ZONE 1B, 6C 34A, 60A	INSFD FIG. 20 ZONE 1C, 6C 34A, 60A	INSFU FIG. 20 ZONE 1C, 7A 103A, 105A
TABLE III F-14 SOSTEL BOCLEAN BOUATIONS	9	Special Considerations	L. MAIN BUS	L. MAIN BUS	L. MAIN BUS	L. MAIN BUS	L. MAIN BUS	L. MAIN BUS	L. MAIN BUS	L. MAIN BUS	L. MAIN BUS	L. MAIN BUS	L. MAIN BUS
TABLE III P-14 8	5	Bus/Load Management Priority	3	E .	e.	m	E.	е	e.	۳	E	6	m
	•	Solid State Controller List Cross Reference	359	360	361	362	, ye3	756	365	300	367	996	369
	3	Transducer List Cross Reference	264	265	265	265	500	566	566	267	267	267	268
	N	Boolean Equation	AGL 359 = AGS 264	AGL 360 = AGS 265	AGL 361 = AGS 265	AGL 362 = AGS 265	AUL 363 = AUS 266	AGL 364 = AGS 266	AGL 365 = AGS 266	AGL 366 = AGS 267	AGL 367 = AGS 367	AGL 368 = AGS 267	AGL 369 = AGS 268
	-	Table Item #	359	36	361	296			<u>\$</u>	\$	196	368	696

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FIGURE 20 SHIRT 3	80	Squation Description & Notes	STA GH AJN-54 MSL HTR PWR - 115VAC PH L = AJN-54 HTR PWR - ON	STA 3R AJM-54 MSL HTR PAR - 115VAC PH B = AJM-54 HTR FAR - ON	STA 4R AIN-54 MSL HTR PUR - 115VAC PH.B = AIN-54 HTR FUR - ON	STA 1B AJN-54 MSL HTR PMR - 115VAC PH.A = ADN-54 HTR FMR - ON	STA 88 AIM-54 MSL HTR PAR - 115VAC PH.A = AIM-54 HTR FAR - 0N	AMMANENT FANEL - MISSILE SELECT 28VDC = MEAPON SELECTOR SM - PH SP	STA 1B BATTERT AIM (28VDC) = STA. 1B AIM-7 BATTERY-AIM AND HYDR - ENABLE	sta 3p baytery ahn (20'0c) = sta 3f ain-7 baytery-ann and hydr – enable	sta 4p battera arm (28vic) = sta 4p aim-7 battera-arm and hydr = bhable	sta 5p baytert amm (28vdc) = sta 5f alm-7 Baytery - amm and hydr - enable	STA GF BNTTERT AMM (28VDC) = STA GF AIM-7 Battery - amm and hydr - enable	STA 8B BATTERY ARM (28VDC) = STA 8B AIM-7 BATTERY - ANM AND HYDR - ENABLE
24	7	Reference Drawings	IMSFD FIG. 20 ZONE 1C, 7A 10A	IWSFD FIG. 20 ZONE 1B, 7A 93B	IWSPD FIG. 20 ZONE 1B, 7A 95A, 97A	INSPD FIG. 20 ZONE 1A, 7A 89C	IMSFD FIG. 20 ZONE 1A, 7A 91C	INSPD FIG. 20 ZONE 14A, 3C	IWSFD FIG. 20 ZONE 3A, 7B, 30B, 60C	IMSPD FIG. 20 ZONE 3A, 7B, 25B, 60C	INSPD FIG. 20 ZONE 3A, 7C 26B, 60C	INSPD FIG. 20 ZONE 3B, 7C 27B, 60C	INSPD FIG. 20 ZONE 3B, 7C 26B, 60C	INSED FIG. 20 ZONE 3B, 7B 31C, 60C
TABLE III P-14 SOSTEL BOCLEAN EQUATIONS	9	Special Considerations	L. MAIN BUS	ESS. NO. 1 BUS	L. MAIN BUS	L. MAIN BUS	L. MAIN BUS	L. MAIN BUS	L. MAIN BUS	L. MAIN BUS				
TABLE III P-14 8	\$	Bus/Load Management Priority	3			E		,	e	.	6	e	e .	
		Solid State Controller List Cross Reference	370	ж	372	373	374	381	383	384	385	9 8	367	388
	8	Transducer List Cross Reference	568	568	568	568	568	281	569	270	27.1	272	273	71.7
	CV.	Boolean Equation	AGL 370 - AGS 268	AGL 321 - AGS 268	AGL 372 = AGS 268	AGL 373 - AGS 268	AGL 374 = AGS 268	YAL 381 - YAS 281	AGL 383 = AGS 269	AGL 384 = AGS 270	AGL 385 = AGS 271	AGL 386 - AGS 272	AGL 387 = AGS 273	AGL 388 - AGS 274
	-	fible.	370	371	372	373	374	186	363	38	£	**	79%	98 ,

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FIGURE 20 SHEET 4	8	Mquation Description & Notes	STA 1B NOTOR FIRE A AND "STA 1B AIN-7 BATTERY - AIM AND HYDR - ENABLE AND AIM-7 NOTOR FIRE-SEL	STA 88 NOTOR PINE A AND B = STA 88 A.DH-7 BATTERY-ARM AND HTDR-ENABLE AND A.DH-7 NOTOR PINE-SEL	STA 3F WITOR FIRE A AND B = STA 3F ADA-7 BATTERY-ARM AND HYDR-ENABLE AND AIM-7 MOTOR FIRE-SEL	STA GF NOTOR FIRE A AND B = STA CF AIM-7 BATTERY - ASM AND HYTH-ENMELE AND AIM-7 MOTOR FIRE- SEL	STA 5F NOTOR FIRE A AND B" STA 5F AIM-7 BATTER-AIM AND RTDR - ENABLE AND AIM-7 MOTOR FIRE - SEL	STA 4F NOTOR FIRE A AND B = STA 4F AIN-7 Battery - Ama and hydr - Enable and Ain-7 notor Fire - Sel	HISSILE DATA CONVERTER AND MISSILE CONTROLLER AND POWER SUPPLY PP-6675/ANG-9 (28VDC) = 28VDC LEPT NAIN HUS ENENTIZED	STA 1B, 3R, 4R, 5R, 6R, 8B AIM-54 MSL (28VDC) = 28VDC LEPT MAIN BUS - ENERGIZED	
2	1	No ference Drewings	IMSPD FIG. 20 ZONE 3A, 7A 21B, 22C, 29C 60C	INSPD FIG. 20 20NE 3A, 8B 21B, 20C, 60C	ZONE 3A, 8B, 21B 20C, 60C, 20C	IMSPD FIG. 20 ZONE 3A, 8B 21B, 20C, 60C 26C	INSFD FIG. 20 ZONE 3A, 7C 21B, 22C, 60C 28C	INSFD FIG. 20 ZONE 3A, 8C, 21B, 22C, 6CC 27C	ZONE 3A, 34A	IMSPD FIG. 20 ZONE 3B, 90C 94A, 98A, 106A 102A, 92C	
TABLE III P-14 SOSTEL BOOLEAN EQUATIONS	•	Special Considerations	L. MAIN BUS	L. MAIN BUS	L. MAIN BUS	L. MAIN BUS	L. MAIN BUS	L. MAIN BUS	L. MAIN BUS	L. MAIN BUS	
TABLE III P-14	\$	Bus/Load Management Priority	E	•	e	٣		m		m	
		Solid State Controller List Cross Reference	686	360	351	85	393	<u>\$</u>	335	%	
	3	Transducer List Gross Reference	51.2 692	274 275	270	275	272	275 275	N/A	N/A	
	~	Boleen Equation	AGL 389 = AGS 269 = AGS 275	AGL 390 - AGS 274 - AGS 275	AGS 275	AGL 392 = AGS 273 = AGS 275	AGS 275 AGS 275	AGS 275 AGS 275	AGL 395	AGL 396	
	-	i i	6 6	8	191	<u>8</u>	393	\$	8	*	

FIGURE 27 SHEET 1	13 Conditioning Technique	STORAL STORAL ATANTER
FIGURE 27	12 Associated Boolean Equation	376
	11 Reference Drawings	ZONE 14B
	10 Operational Address	97050
	9 Conventional Bwitches Being Replaced or Deleted	ч/и
TRANSDUCERS	8 Associated Loads	(2381)
TABLE I F-14 SOSTEL SIGNAL TRANSDUCERS	7 Present Signal Characteristics	OPEM/GND
TABLE I P	fransducer Type	SIGNAL DRIVER
	Soint of Origin	rs 300
	Signal Source Box Identification	DATA LINK SYSTEM
	3 Identifier Code	RUS 276
	2 Signal Name/Punction	DATA LINK ANTENNA SELECT
	Table Ite	2.16

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21	Associated Boolean Equations	375	346
п	Reference Drawings	INSPD FIG. 27 ZONE 18, 13A	INSP FIG. 27
9	Identifier Code	SUE THE	NUL 376
6	Operational Address	93618	
	Conventional Devices Being Replaced	CB69 (5A) UHF NO. 2 (36A2)	CB18 (3A) ASH-27 (36Ak)
-	P.C. Location		
•	Loed Power Dissipation		
•	Duty Cycle	1001	
	Associated Loads	MO. 2 UMF RADIO PANEL -28VDC (159A1)	DATA LINE SMITCH (1331) RELAY
•	Peting V & I	V-28VIC I- 5A	V=2BVDC
~	Proper of Power Controller	DC-1 FOLE	RELAY DRIVER
7	Table Ites #	375	376
	1 0 6 8 2 9 10 11 6	2 3 4 5 6 7 8 9 10 11 Type of Reting Associated Loads Cycle Distribution Location Engineed Controller V & I Associated Loads Cycle Dissipation Location Cycle Dissipation Cycle Dissipa	2 3 4 5 6 7 8 9 10 11

-1	_				
FIGURE 27 SHEET 1	•	Mquetion Description & Motes	NO. 2 UNF RADIO PANEL (28VDC) = NO. 2 28VDC BUS EMERGIZED	DATA LINK THANSHISSION LINE SMITCH - ENERGIZED =	
21	1	Reference Drawings	IMSFD FIG. 20 ZONE 1B, 13A	INSPD FIG. 20 ZONE 1C, 14c	
TABLE III P-14 SOSTEL BOGLEAN BRUATIONS	9	Special Considerations	ESS. NO. 2 BUS	LEPT MAIN BUS	
TABLE III P-14 (5	Bus/Load Management Priority	ર		
		Solid State Controller List Cross Reference	375	376	
	3	Transducer List Cross Reference	N/A	276	
	N	Boolean Equation	HUL 375	MUL 376 - RUS 276	
	-	Table Item #	375	376	

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BHEET 1	13 Conditioning Technique	SOLID STATE	SOLID STATE	SOLID STATE	SOLID STATE	RESISTOR DIVIDER ADAPTER	RESISTOR DIVIDER ADAPTER	SOLID STATE		EXTERNAL SIGNAL ADAPTER
FIGURE 29	12 Associated Boolean Equation	125	225	523	223	425	525	286	527	377 520
	11 Reference Drawings	INSFD FIG. 29 ZONE 3A	INSFD FIG. 29 20NE 3B	INSPD FIG. 29 ZONE 3B	INSPD FIG. 29 20NE 3B	IWSFD FIG. 29 ZONE 2C	IMSPD FIG. 29 ZONE 2C	IWSPD FIG. 29 ZONE 7C, 13A	INSFD FIG. 29 ZONE 5C, 9C	INSPD FIG. 29 ZONE 24B, 15C
	10 Operational Address	72490	07723	OTP24	06P25	90450	60450	92410	02P25	61050
	9 Conventional Bwitches Being Replaced or Deleted	LEPT AUX FLAP EXTEND SM (5183)	RIGHT AUX FLAP EXTEND SW (5184)	RICHT INBOARD MANEUVER FLAP)SM (51S2)	LEFT INBOARD MANEUVER FLAP)SM (51S1)	N/A	N/A	MASTER RESET P/O FUEL MANAGEMENT PANEL (707AL)	MODE LOGIC MASTER TEST SM PROCESSOR P/O MASTER TEST P/O ALC (05AL)PAREL (734AL)	N/A
TRANSDUCERS	B Associated Loads	FAIL MONITOR LIGHT DRIVER P/O ADC (05A)	FAIL MONITOR LIGHT DRIVER P/O ADC (05A)	MODE LOGIC PROCESSOR P/O ADC (05A1	MODE LOGIC LEFT INBO PROCESSOR MANEUVER P/O ADC (05A1) SM (51S1)	MODE LOGIC PROCESSOR P/O ADC (05A1)	WODE LOGIC PROCESSOR P/O ALC (05A1	FAIL MONITOR LIGHT DRIVER FAIL MONITOR COMPARATOR BIT PROCESSOR	MODE LUGIC PROCESSOR P/O ALC (05AL	K ¹ 2 - ALT KELIABLE KELAY (L. GLOVE FELAY BOX (T3A1)
TABLE I 7-14 SOSTEL SIGNAL TRANSDUCERS	7 Present Signal Characteristics	OPEN/GRD	OPEN/GRD	OPEN/GRD	OPEN/GRD	OPEN/GRD	OPEN/GRD	OPEN/GRD	OPEN/GRD	RELAY DRIVER RELIABLE = GND RELIABLE = OPEN/ 28VDC
TABLE 1 E	fransducer Type	SPDT LDAIT SMITCH	SPDT LIMIT SMITCH	DPDT LIMIT SMITCH	DPDT LINIT SAITCH	SPDT LIMIT SMITCH	SPOT LIMIT SMITCH	M.O. PUSHBUTTON	HOTARY SH	SIGNAL SIGNAL
	Point of Origin	LEPT WING PS 600 BL 130	RIGHT WING FS 600 BL 130	RIGHT WING TRAILING FS 600 BL 200	LEPT WING TRAILING FS 600 BL 200	FS 540 WL 170	FS 540 WL 170	PILOT'S LEFT VERTICAL CONSOLE FS 225	PILOTS RIGHT SIDE CONSOLE FS 225	FS 400
	Burre Box Identification	LEPT AUX FLAP EXTEND SMITCH (5183)	RIGHT AUX FIAP EXTEND SMITCH (5154)	RIGHT INBOARD MANEUVER FLAP SMITCH (5152)	LEFT INBOARD MANEUVER FLAP SMITCH (5151)	WING POS SM (51A5)	WING FOS SM (51A5)	PUEL (707A.) PANEL (707A.)	(734A1)	AUC (OSA1)
	3 Identifier Code	ска 509	CKS 510	CKS 511	CKS 512	CKS 513	DKS 514	CKS 515	MJS 516	FKS 517
	81gpal Name/Punction	LEFT AUX FLAP- EXTEND	RIGHT AUX FLAP- CKS 510 EXTEND	RIGHT INBOARD MAN: FLAP-EXTEND	LEFT INBOARD MAN FLAF-EXTEND	WING POS-> 21 ^o	WING POS-> 50°	MASTYR RESET- DEP 6.33ED	WG SWP	ADC ALTITUDE- RELIABLE
	Table Ite	\$65	910	ă	215	513	514	5115	316	714

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FIGURE 29 SHEET 1	21	Associated Boolean Equations	LTS	518
Ĭ	=	Beference Drawings	INSED FIG. 29 ZONE 134, 34, ZA, 1A	INSPD FIG. 29 ZONE 13B, 3A ZA, 1A, 1B
	97	Identifier Code	XAL 517	XAL 518
	6	Operational	0.0011 0.0012 0.0013	†TÖ20
TABLE II P-14 SGLID STATE POWER CONTRULIESS AND DRIVERS		Conventional Devices Being Replaced	P/O RIGHT MAIN AC PROMER CONTACTOR (6695K2 P/O LEFT MAIN AC POWER CONTACTOR (666K1) AC POME CONTACTOR ASSTY (666K) P/O GROUND COOLING PRESSURE INTERLOCK SMITCH (552E) R/O LACS/CALC INTIAL AFT COCKETT RELAY BOX (793A) CED (3A) CHAN I CADC & P/O MA CESS CHOUTE BRANKER PAREL (356K) P/O MA CESS CHOUTE BRANKER PAREL (356K) CESS(3A) GROUND COLUMN CESS(3A) GROUND CESS(AA) P/O MA CESS CHOUTE CESS(3A) GROUND CESS(AA) CESS(3A) GROUND CESS(AA) CESS(RE ARY-76/R AIGS INTIX BOX (793A)
ID STATE POAR	-	P.C. Location		
ABLE II P-14 801	9	Load Power Dissipation		
4	•	Duty	\$ 001	\$ 001
		Associated Loads	CHARREL 1 FONER SUPLIY	CHANNEL POWER SUPPL.
		Pating V & I	W. IISWAC	V- 115VAC
	N	Type of Power Controller	AC-3 POLE	AC-1 POLE
	-	Table Ites #	<i>T</i> 12	818

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21	Associated Boolean Equations	519		521	522	523	45%	6 2	926
n —	Reference Drewings	INSPD FIG. 29 20ME 47B, 47C 1C	INSPO FIG. 29 ZONE VA, 47C 1C 1C	IMSPD FIG. 29 ZONE 3A, 13A	ZONE 3B, 13A	INSPD FIG. 29 ZONE 3B, 3C, 9C	INSPD FIG. 29 ZONE 2C, 9C	INSPD FIG. 29 ZONE 2C, 9C	INSFD FIG. 29 Zone 7c, 13a
10	Identifier Code	PML 519	PRL 520	CKL 521	CKL 522	CKL 523	CKL 524	CKL 525	CKL 526
6	Operational Address	03419	02060	o6032	66093	1 6090	06035	9£09o	06037
80	Conventional Devices Being Replaced	CB35 A/S IND/BARO ALTM DC (36A2) P/O 8 DC ESS 2 CINCUIT BREAKER PANEL (36A2)	P/O K42 ALT RELIABLE LEFT GLOVE RELAY BOX (7734)	LEFT AUX FLAP EXTEND SW (5183)	RIGHT AUX FLAP EXTEND SM (5184)	RIGHT INBOARD MANEUVER FIAP SM (5182) LEFT INBOARD MANEUVER FIAP SM (5181)	P/O WING POS. SW (51A5)	P/O WING POS SM (51A5)	MASTER REJET P/O FUEL WANGISHENT FANEL (TOTAL)
1	P.C. Location								
9	Load Power Dissipation								
•	Duty	100f							
	Associated Loads	NPO SERVO PNEUMATIC ALTINETER POMER SUPPLY (5204) FLLOT SERVO PNEUMAT ALTINETER POWER SUPPLY (5204)	NPO SERVO PREDMATIC ALTINETER SOLINOID (SAM) FILUT SERVO	FAIL MONITOR LIGHT DRIVER P/O ADC (05A1)	FAIL MONITOR LIGHT DRIVER P/O ADC (05A1)	MODE LOGIC PROCESSO P/O ADC (05A1)	MODE LOCIC PROCESSO: P/O ADC (05A1)	MODE LOGIC PROCESSO P/O ADC (05A1)	FAIL MONITOR LIGHT PAIL MONITOR COMPARATOR F/O ALC (05A1)
3	Peting V & I	V= 28VDC		V= OV DC	V= OV DC	V= 0V DC	V= OVDC	v= ovdc	
~	Type of Power Controller	DC-1 POLE	AC-1 POLE	LAMP DRIVER	LAMP DRIVER	ENABLE DRIVER	ENABLE DRIVER	ENABLE DRIVER	ENABLE DRIVER V= OVDC
-	Table Item #	615	250	521	225	523	425	525	526
	1	2 3 4 5 6 7 8 9 10 11 Type of Power Puty Power P.C. Conventional Devices Operational Devices Operational Devices Code Drawfings Code Drawfin	Type of Phote Phot	Type of Fact Paring Pack Pack	Page of Pacific Pacifi	Particular Par	Type of Notice No	Part Part	Part Part

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PICURE 29 SHEET 3	य	Associated Boolean Equations	527	825
N.	п	Reference Drewings	INSPD FIG. 29 ZONE 5C, 9C	1MSPD FIG. 29 20NB 66, 13A 90
	07	Identifier Code	CKL 527	CKL 528
	•	Operational	. 06038	ocp 39
TABLE II 7-14 SOLID STATE POWER CONTROLLERS AND DRIVERS	60	Conventional Devices Being Replaced	MASTER TEST SW P/O MASTER TEST PANEL (734A1)	P/O KIZ WON HIGHT GLOVE RELAY BOX (772A.)
ID STATE POAT	7	P.C. Location		
BLE II P-14 80	•	Losd Poser Dissipation		
A	•	Duty Cycle		
		Associated Loads	MODE LOGIC PROCESSOR P/O ADC (05A1)	MODE LOGIC PROCESSOR P/O ADC (OSA1)
	3	Peting V & I	V= OVDC	V= OVIG
	~	Type of Power Controller	ENABLE DRIVER V. OVDC	ENABLE DRIVER V- OVIC
	-	Table Item	527	

Equation Description & Notes	CHANKEL I PHE SUPELY - ON - RIGHT MAIN AC PME-ON LINE OR LEPT MAIN AC FWE - ON LINE OR GND COOLINE PRESS INTLE - HIGH	WING SMEEP BACKUP CHANNEL POWER SUPPLY - ON RIGHT MAIN AC PAR-ON LINE OR LEPT MAIN AC PAR-ON LINE OR OND COOLING PRESS INTLK-HIGH	NFO AND PILOT SERVO PREMATIC ALTIMETER FOMER SUPPLY-ON = 28V ESSENTIAL NO, 2 BUS-ON	PILOT MACH-AIRSPEED INDICATOR AND IND AND PILOT SERVO PHENATIC ALTINETER SOLENOID & SERVONOTOR-ON - AIC ALTITURE PELIABLE	LEFT AUX FLAP EXTEND - LEFT AUX PLAP EXTEND 3M- EXTEND	RICHT AUX FLAP EXTEND = RICHT AUX PLAP EXTEND SM- EXTEND	MANBAVER MAPS RETRACTED - KIGHT AND LEPT INBOARD MARBAVER FIAP SMITCHES - EXTEND NOT	WING SAREEP > 21° = WING POS SW - > 21°	INHIBIT MANEUVER FLAFS = WING POS - > 50°	AIC MASTER RESET = MASTER RESET SMITCH - DEPRESSED	WING SMEEP TEST SELECT = TEST SELECTOR - DEPRESSED AND M3 SMP	WON (TO AUC) - LEPT AND RIGHT MLG-WEIGHT ON WHEELS		
Reference Drawings	IWSFD FIG. 29 ZONE 3A, 2A, 1A	INSPD FIG. 29 ZONE 13B, 3A, 2A 1A, 1B	INSPD PIG. 29 ZONE 47B, 47C, 1C	INSPD FIG. 29 ZONE 47A, 47C 45B, 24B, 2B IC	TWSPD FIG. 29 ZONE 3A, 13A	IMSFD FIG. 29 ZONE 3B, 15A	IMSED FIG. 29 ZONE 3B, 3C, 9C	IMSPD FIG. 29 ZONE 2C, 9C	INSPD PIG. 29 ZONE 2C, 9C	IMSPD PIG. 29 ZONE 7C, 13A	INSPD FIG. 29 ZONE 5C, 9C	INSPD FIG. 29 ZONE 6C, 13A, 90		
Special Considerations	ESS. NO. 2 BUS	ESS. NO. 2 BUS	ESS. NO. 2 BUS	ESS. NO. 2 BUS	ESS. NO. 2 BUS	ESS. NO. 2 BUS	ESS. NO. 2 BUS	ESS. NO. 2 BUS	ESS. NO. 2 BUS	ESS. NO. 2 BUS	ESS. NO. 2 BUS	ESS. NO. 2 BUS		
Management Priority	8	a	N	C)	8	a	a	a	N	a	8	8		
List Cross Reference	713	818	519	250	521	522	523	Ž,	525	98	25.7	528		
List Cross Reference	888	8,4,8	и/и	517	605	510	щщ	513 .	\$ 415	5115	516	102		
Boolean Equation	XAL 517 = XAS 003 +XAS 004 + HIIS 005	XAL 518 = XAS 003 + XAS 004 + HNS 005	PKL 519	PKL 520 = PKS 517	CKL 521 = CKS 509	CKL 522 = CKS 510	CKL 523 = (CKS 511) (CKS 512)	CKL 524 = CKS 513	CKL 525 - CKS 514	CKL 526 = CKS 515	CKI, 527 = NJS 068 • NJS 516	CKL 528 = GDS 002 • GDS 102		
Table Item #	21.5	816	616	520	521	555	523	524	\$2\$	256	527	528		
	Declan Equation List Cross Management Special Reference Reference Priority Considerations Drawings	Boolean Equation List Cross List Cross Management Special Reference XAL 517 = XAS 003 003 517 2 ESS. NO. 2 BUS INSP FIG. 29 *XAS 004 + BMS 005 004 005 1 NS 005 2 ESS. NO. 2 BUS INSP FIG. 29	Modean Roution List Gross Management Information Special Peternee Priority Reference Priority Reference Priority Reference Priority Reference Priority Reference Priority Provings XAL 517 = XAS 003 003 517 2 ESS. NO. 2 BUS INSEP FIG. 29 XAL 51B = XAS 003 + 181S 005 003 518 2 ESS. NO. 2 BUS INSEP FIG. 29 XAL 51B = XAS 003 + 181S 005 004 2 ESS. NO. 2 BUS INSEP FIG. 29 XAS 004 + 181S 005 004 2 ESS. NO. 2 BUS INSEP FIG. 29 A.A. 1B 1A, 1B 1A, 1B 1A, 1B	Boolean Runtion List Gross Hongesent Priority Special Provides Priority Reference Priority Reference Priority Reference Priority Reference Priority Reference Priority Priority Considerations Practices Priority Dravings XAL 517 = XAS 003 + MAS 003 + MAS 004 + MBS 005 003 518 2 ESS. NO. 2 BUS IMSPD FIG. 29 XAL 519 004 005 518 2 ESS. NO. 2 BUS LAS. 1A FML 519 N/A 519 2 ESS. NO. 2 BUS LAS. 1A FML 519 N/A 519 2 ESS. NO. 2 BUS LAS. 1A 2008 4 4 HS 05 10 10 10 10	Modests Boulest Bouleting List Gross Hard Gross Hard Brets Reference Priority Considerations Bretsune Priority Considerations Dravings XAL 517 = XAS 003 003 517 2 ESS. NO. 2 BJS INSPD FIG. 29 XAL 51B = XAS 003 + 188 005 003 518 2 ESS. NO. 2 BJS INSED FIG. 29 XAL 51B = XAS 003 + 188 005 004 519 2 ESS. NO. 2 BJS INSED FIG. 29 PKL 519 N/A 519 2 ESS. NO. 2 BJS INSED FIG. 29 PKL 520 = PKS 517 517 520 ESS. NO. 2 BJS INSED FIG. 29 PKL 520 = PKS 517 517 520 ESS. NO. 2 BJS INSED FIG. 29	Mode of Boundary Boundary List Gross Management Boundary Special Bravings Priority Considerations Dravings XAL 517 = XAS 003 003 517 2 ESS. NO. 2 BJS IMSPD FIG. 29 XAL 51B = XAS 003 + 18HS 005 003 51B 2 ESS. NO. 2 BJS IMSPD FIG. 29 XAL 51B = XAS 003 + 18HS 005 004 519 2 ESS. NO. 2 BJS IMSPD FIG. 29 FKL 519 N/A 519 2 ESS. NO. 2 BJS IMSPD FIG. 29 FKL 520 = FMS 517 517 580 2 ESS. NO. 2 BJS IMSPD FIG. 29 FKL 521 = CKS 509 509 521 ESS. NO. 2 BJS IMSPD FIG. 29 FKL 522 = FMS 517 517 580 2 ESS. NO. 2 BJS IMSPD FIG. 29 FKL 521 = CKS 509 509 521 ESS. NO. 2 BJS IMSPD FIG. 29 FKL 521 = CKS 509 509 521 ESS. NO. 2 BJS IMSPD FIG. 29 FKL 521 = CKS 509 509 521 ESS. NO. 2 BJS IMSPD FIG. 29	Modean Runtion List Gross Hongesent Priority Special Proteins Priority Priority Special Priority Priority Priority Special Priority Priority Priority Priority Priority Priority Priority Priority Priority Priority Priority Priority Priority Priority Priority Priority Priority Priority Priority	Receipted Rece	Mode of Boundary Boundary List Gross Hater Trace Management Priority Special Protects Before the Process Priority Considerations Bretwees Priority Considerations Bretwees Bretwees </th <th>Molean Bunktom List Gross List Gross Horsymoe Priority Considerations Beformoe XAL 517 = XAS 003 003 517 2 ESS. NO. 2 BJS IMSPD FIG. 29 XAL 518 = XAS 003 + 188S 005 003 518 2 ESS. NO. 2 BJS IMSPD FIG. 29 XAL 51B = XAS 003 + 188S 005 003 518 2 ESS. NO. 2 BJS IMSPD FIG. 29 XAL 51B = XAS 003 + 188S 005 004 519 2 ESS. NO. 2 BJS IMSPD FIG. 29 XAL 519 N/A 519 2 ESS. NO. 2 BJS IMSPD FIG. 29 PKL 519 517 520 2 ESS. NO. 2 BJS IMSPD FIG. 29 CKL 521 = CKS 510 510 521 2 ESS. NO. 2 BJS IMSPD FIG. 29 CKL 522 = CKS 510 510 522 2 ESS. NO. 2 BJS IMSPD FIG. 29 CKL 524 = CKS 513 512 524 ESS. NO. 2 BJS IMSPD FIG. 29 CKL 525 = CKS 514 513 524 ESS. NO. 2 BJS IMSPD FIG. 29 CKL 525 = CKS 514 514</th> <th>Roles Boules Boustion List Cross (Persons) List Cross (Persons) List Cross (Persons) Priority Considerations Directore KAL 517 = XAS 003 (Oct.) 003 517 2 ESS. NO. 2 BUS DARF DFG. 29 XAI 51B = XAS 003 (Oct.) 003 518 2 ESS. NO. 2 BUS DARF DFG. 29 XAI 519 004 519 2 ESS. NO. 2 BUS DARF DFG. 29 PKL 519 N/A 519 2 ESS. NO. 2 BUS DARF DFG. 29 PKL 520 = PKS 517 517 520 2 ESS. NO. 2 BUS DARF DFG. 29 CKL 521 = CKS 510 510 520 2 ESS. NO. 2 BUS DARF DFG. 29 CKL 522 = CKS 510 510 520 2 ESS. NO. 2 BUS DARF DFG. 29 CKL 522 = CKS 511 511 523 2 ESS. NO. 2 BUS DARF DFG. 29 CKL 525 = CKS 513 513 524 2 ESS. NO. 2 BUS DARF DFG. 29 CKL 525 = CKS 514 511 5 5 2 ESS. NO. 2 BUS DARF DFG. 29 <t< th=""><th> Note Role Role </th><th> March Marc</th><th> Molden Equation List Cross List Cross Priority Condidentions Priority Condidentions Priority Condidentions Dividing </th></t<></th>	Molean Bunktom List Gross List Gross Horsymoe Priority Considerations Beformoe XAL 517 = XAS 003 003 517 2 ESS. NO. 2 BJS IMSPD FIG. 29 XAL 518 = XAS 003 + 188S 005 003 518 2 ESS. NO. 2 BJS IMSPD FIG. 29 XAL 51B = XAS 003 + 188S 005 003 518 2 ESS. NO. 2 BJS IMSPD FIG. 29 XAL 51B = XAS 003 + 188S 005 004 519 2 ESS. NO. 2 BJS IMSPD FIG. 29 XAL 519 N/A 519 2 ESS. NO. 2 BJS IMSPD FIG. 29 PKL 519 517 520 2 ESS. NO. 2 BJS IMSPD FIG. 29 CKL 521 = CKS 510 510 521 2 ESS. NO. 2 BJS IMSPD FIG. 29 CKL 522 = CKS 510 510 522 2 ESS. NO. 2 BJS IMSPD FIG. 29 CKL 524 = CKS 513 512 524 ESS. NO. 2 BJS IMSPD FIG. 29 CKL 525 = CKS 514 513 524 ESS. NO. 2 BJS IMSPD FIG. 29 CKL 525 = CKS 514 514	Roles Boules Boustion List Cross (Persons) List Cross (Persons) List Cross (Persons) Priority Considerations Directore KAL 517 = XAS 003 (Oct.) 003 517 2 ESS. NO. 2 BUS DARF DFG. 29 XAI 51B = XAS 003 (Oct.) 003 518 2 ESS. NO. 2 BUS DARF DFG. 29 XAI 519 004 519 2 ESS. NO. 2 BUS DARF DFG. 29 PKL 519 N/A 519 2 ESS. NO. 2 BUS DARF DFG. 29 PKL 520 = PKS 517 517 520 2 ESS. NO. 2 BUS DARF DFG. 29 CKL 521 = CKS 510 510 520 2 ESS. NO. 2 BUS DARF DFG. 29 CKL 522 = CKS 510 510 520 2 ESS. NO. 2 BUS DARF DFG. 29 CKL 522 = CKS 511 511 523 2 ESS. NO. 2 BUS DARF DFG. 29 CKL 525 = CKS 513 513 524 2 ESS. NO. 2 BUS DARF DFG. 29 CKL 525 = CKS 514 511 5 5 2 ESS. NO. 2 BUS DARF DFG. 29 <t< th=""><th> Note Role Role </th><th> March Marc</th><th> Molden Equation List Cross List Cross Priority Condidentions Priority Condidentions Priority Condidentions Dividing </th></t<>	Note Role Role	March Marc	Molden Equation List Cross List Cross Priority Condidentions Priority Condidentions Priority Condidentions Dividing

SHEET 1	13 Conditioning Technique	SOLID STATE	SOLID STATE	SOLID STATE	RESISTOR DIVIDER ADAPTER	RESISTOR DIVIDER ADAPTER	SOLID STATE	RESISTOR DIVIDER ADAPTER
FIGURE 30 SHEET 1	12 Associated Boolean Equation	279	280 281 287	281	281 287 573	281 287 573	æ	283 287 297
	11 Reference Drawings	IWSPD FIG. 30 ZONE 6B	INSFD FIG. 30 ZONE 6B	INSPD FIG. 30 20NE 5B	INSPD FIG. 30 ZONE 8C	INSPD FIG. 30 ZONE BC	INSPD FIG. 30 ZONE 5C	INSPD FIG. 30 20NE 12B
	10 Operational Address	01P29	011930	60360	01P31	OIP32	01.P33	07P25
	9 Conventional Switches Baing Replaced or Deleted	(74.81)	NOSE STRUT SMITCH (74S1)	LAUNCH BAR PROXINIY SAITCH (作立)	N/A	N/A	SAITCH BAR ABOHT	N/A
TRANSDUCERS	8 Associated Loads	EXTENDED SOLINOID P/O NIG TRANSFER VALUE (7411)	KNEEL SOLINOID P/O NIG TRANSFER VALVE (74L1)	K93 - LAUNCH BAR NOT STOVED STOVED STOVED (L.GOVE RELAY BOX 773A1) 773A1) ALAUNCH BAR ALAUNCH BAR ALUNCH CONTROL TO INDICATOR	SAME AS ITEM 193	SAME AS ITEM 193	SELECTOR SOLINOID P/O LAUNCH BAR ABORT SELECTOR VALVE (74L3)	HOOK SOLINOID P/O ARRESTING HOOK CONTROL VALVE (49L1)
TABLE I F-14 SOSTEL SIGNAL TRANSDUCENS	Present Signal Characteristics	EXTD = SMITCHED 28VDC OFF = OPEN	KNEEL-SMITCHED 28VDC OPF-OPEN	EXTENCED-SATTCHED 28VDC RETRACTED-OFEN	< MIL PWR = SWITCHED 28VDC > MIL PWR = OPEN	<pre>< MIL FWR = SWITCHED 28VDC > MIL FWR = OPEN</pre>	ABORT = SMITCHED 28VDC NORMAL=OPEN	LINIT SMITCH STOWED = OFEN NOT STOWED = SMITCHED GND
TABLE I F.	6 Transducer Type	TOGGLE SWITCH DPUTCO (SPRING LOADED TO C.O.)	TOGGLE SMITCH DEPTCO (SPRING LOADED TO C.O.)	эмтен эмтен	LIMIT SMITCH < MIL PWR = SWITCHED 28N > MIL PWR = OPEN	LIMIT SMITCH < MIL FWR = SMITCHED 28N > MIL FWR = OFEN	TOGGLE SMITCH SPOT	LIMIT SMITCH DPDT
	5 Point of Origin	PILOF'S LEFT VERTICAL CONSOLE STA 225	PILOT'S LEFT VERTICAL CONSOLE STA 225	NIG SHOCK STRUT STA 290 WL 101	PILOF'S LEFT SIDE STA 225	PILOT'S LEFT CONSOLE STA 225	PILOT'S LEFT VERTICAL CONSOLE STA 225	AFT STA 750
	ly Signal Source Box Identification	NOSE STRUT SMITCH (74SL) P/O LANDING GEAR CONTROL PANEL	NOSE STRUT SMITCH (74SI) P/O LANDING GEAR CONTROL PANEL	P/O LAINGN HAR PROXIMITY SMITCH (76.52)	THEOTILE QUADIMIT (711A1)	THEOTILE QUADRANT (711A1)	(74A1)	ARRESTING HOOK NOT STOWED SWITCH (4981)
	3 Identifier Code	GAS 191	GAS 192	GAS 193	4/1 SA		GAS 196	
	2 Signal Name/Function	NOSE STRUT -	NOSE STATE KNEEL	LAUNCH BAR EXTENDED	LEFT THEOTTLE < MIL PAR	RIGHT THROTTLE QRS 195 < MIL FWR	ABORT	ноок - этомер саз 197
	Table Item	Tife .	8 .	<u> </u>	\$	8	<u>8</u>	191

SHEET 2	13 Conditioning Technique	SOLID STATE	RESI STOR DIVIDER ADAPTER	RESISTOR DIVIDER Adapter	RESISTOR DIVIDER ADAPTER	SOLID STATE
PICURE 30	12 Associated Boolean Equation	265 312 313 310 310	282 283	284 313 311	312 243	8.8 8.0
	11 Reference Drawings	IWSPD FIG. 30 ZONE 14B	INSPD FIG. 30 ZONE SA	INSPD FIG. 30 ZONE 8B	INSPD FIG. 30 ZONE 8B	INSED FIG. 30 20NE 19A
	Operational Address	01P34	92450	01.935	0 LP 36	7.887
	9 Conventional Switches Being Replaced or Deleted	ANTI-SKID/SPOILER BK SWITCH (S6)	*/*	V/N	W/ W	MLG DOOR UP DAND LOCKED SAITCH (7582)
TRANSDUCERS	8 Associated Loads	SKID CONTROL BOX (82A1)	K28 - NOSE WHEEL STEERING NO. 2 (L. GLOVE RELAY BOX 773A1)	K91 - NOSE GEAR HYDRAULIC SHUTOFF VALVE RELAY (L. GLOVE RELAY BOX 773A1)	K91 - NOSE GEAR HYD SHUTOFF VALVE RELAY (L. GLOVE RELAY BOX 773AL)	a) PLAG FLAG PLO WRELS PLO WHEELS PLO SITION INDICATOR (78M.) DST THANSIT INDICATOR INDIC
TABLE I F-14 SOFTEL SIGNAL TRANSDUCERS	7 Present Signal Characteristics	BOTH = SWITCHED 28VDC OFF = OPEN	ON=SMITCHED 28VDC OFF=SMITCH 28VDC	LDAIT SAITCHED 28AITCHED 28AIC > IDLE = OPEN	LIMIT SMITCH IDLE = SMITCHED 28VIC	NOSE WHEEL LIDIT SMITCH UP AND LOCKED - NELL (2 PDT) SMITCHED GND UNICCKED = OPEN MI 120
TABLE I	6 Transducer Type	TOGGLE	PUSHEUTION	LIMIT SMITCH	Limit smitch	(2 PDF)
	5 Point of Origin	PILOT'S LEFT VERTICAL CONSOLE STA 225	PILOT'S COCKPIT STA 225	PILOT'S COCKEIT STA 225	PILOT'S COCKPIT STA 225	NOSE WHERT NE LL ST 260 WL 120
	ly Signal Source Box Identification	ANTI-SKID/SPOILER BK SHITCH-56 P/O FUEL MANAGEMENT PANEL (70/AL)	CONTROL STICK GRIP	Theotile quadrant (711a1)	THROTTLE QUADRANT (711A1)	NOS UP AND NOSE IN LOCKED SATTCH (7582) WELL. ST. ECO. NL. 120
	3 Identifier Code	GKS 198	онs 199	qKS 200	GKS 201	645 202
	2 Signel Meme/Punction	ANTI-SKID/ SPOILER BK BOTH	AUTO PILOT ENCAGE NOSE WHEEL STEERING FUSHBUTTON SWITCH - ON	IDLE	RIGHT THROTTLE QKS 201 LDLE	ML DOOR - UP
	Table Ite	98,	961	8	201	505

SHEET 3	13 Conditioning Technique	RESISTOR DIVIDER ADAPTER	SOLID STATE	SOLID STATE	RESISTOR DIVIDER ADAPTER	SOLID STATE
FLOURE 30 SHEET 3	12 Associated Boolean Equation	767 767 767 767	8/8%	84.9%	298 298 299	₹%
	11 Reference Drawings	INSPD PIG. 30 ZONE 20A	INSPD FIG. 30 ZONE 20B	INSPD FIG. 30 20NE 20B	TWSPD FTG. 30 ZONE 20C	INSED FIG. 30 Zone 20b
	10 Operational Address	05910	11450	N 05P12	опеге	OTP27
	9 Conventional Bwitches Baing Replaced or Deleted	١/٧	LEPT MLG DOOR LOCKED UNICOCKED SMITCH (75S7)	SMITCH (75S13)	м/м	RIGHT NLG R. MLG DOOR LOCKED B. IP AND LOCKED SHITCH FLAG (75%) PAP OWEELS RATES RAT
TRANSDUCERS	8 Associated Loads	LEFT MLG DOWN AND LOCKED FLAG P/O WHEELS FLAP FOSITIO INDICATOR (78ML)	IEFF MIG UP AND LOCKED FLAG P/O WHEELS FLAF FLAF FOSTFION INDICATOR (78ML)	LEFT MIG UP AND LOCKED FIAG P/O WHEELS FIAF POSITION INDICATOR (7841)	RIGHT MLG DOWN AND LOCKED FLAG P/O WHEELS FLAP POSITION INDICATOR (78M1)	HIGHT MIG PLAG FLAG PLO WHEELS PLAFS POSITION (78M1)
TABLE I F-14 SOSTEL SIGNAL TRANSDUCERS	7 Present Signal Characteristics	LIMIT SMITCH DOWN AND LOCKED- SMITCHED GRO UNLOCKED = OPEN	(DPOT) WITCH UP AND LOCKED (DPOT) WILCOKED = OPEN	(DPDT) SATICH UP AND LOCKED = SATICHED GROUNINGCKED = OPEN	(DPUT) SALTCH DOWN AND LOCKED SALTCHED GND UNLOCKED = OPEN	LIMIT SAITCH UP AND LOCKED = (DPUT) UNLOCKED = OPEN
TABLE I F	fransducer Type	LIMIT SMITCH (DPOT)	(прит эмгтен (пред)	(DPDT)		(DPUT)
	5 Point of Origin	IEPT MLG STA 570 WL 100	LEPT MGG WHEEL WELF STA 570	HEFT MIG WHEEL WELL STA 570	RIGHT MLG STA 570 WL 100	RICHT MLG Wheel Weld Sta 570
	Man Source Box Identification	LEFT MIG DOWN AND LOCKED SMITCH (75.54) P/O DOMILOCK ACTUATOR	LEFF MLE DOOR LOCKEL UNLOCKED SMITCH (7537)	LEFF MIA DOOR POSITION SMITCH (75313)	RICHT MLG DOWN AND LOCKED SMITCH (75.59)	RIGHT MIG DOOR LOCKED UNLOCKED SMITCH (7536)
	3 Identifier Code	GDS 203	6.18 204	GJS 205	GDS 206	6.15. 207
	2 Signal Neme/Punction	LEFT MLG - DOWN AND LOCKED	LEFT MLG DOOR UP AND LOCKED	LEFF MIG POSITION - UP AND LOCKED	RIGHT MLG DOWN AND LOCKED	RIGHT MLI DOOR - UP AND LOCKED
	Table Ita	203	70,	Ś	88	501

SHEET 4	13 Conditioning Technique	SOLID STATE	SOLID STATE	SOLID STATE	EXTERNAL SIGNAL ADAPTER	ETERNAL SIGNAL ADAPTER	SOLID STATE PROXIMITY SMITCH	SOLID STATE PROXIMITY SMITCH
PLOURE 30 SHEET L	12 Associated Boolean Equation	3.8 8	\$62	%	582	297	298	298
	11 Reference Drawings	INSPD FIG. 30 ZONE 20B	INSED FIG. 30 ZONE 13A	INSPD FIG. ZONE 13A	IMSFD FIG. 30 ZONE 15A	INSED FIG. 30 ZONE 17C	INSFD FIG. 30 ZONE 19A	INSFD FIG. 30 ZONE 19A
	10 Operational Address	отрей	05P13	OSP14	osneo	9тало	05P15	04P09
	9 Conventional Switches Baing Replaced or Deleted	R. MLG DOOR POSITION SMITCH (75S14)	AUX BIAK/SKII LEPT BRAKE PRESSURE AAVITON LITH SMITCH (47S1) F/O PILITY CAUTION LANGE ANY SORE (59A1)	SMITCH (4732)	N/A	N/A	SMITCH (75811)	RIGHT BRACE PROXIMITY SMITCH (75S12)
TRANSDUCERS	8 Associated Loads	RICHT MIG UP AND LOCKED FLAG P/O WHEELS FLAPS FOSITION (78M1)	AUX BHK/SKIIC CAUTION LITH P/O PILOT CAUPION ADVISORY INDICATOR (69A1)	SAME AS ITEM 209	SAME AS ITEM 209	DSI TRANSIT INDICATOR LITE-ET/AL	DSI TRANSIT INDICATOR LIGHT P/O LANDING GEAR HANDLE (785A1)	DSI TRANSIT INDICATOR LIGHT P/O LANDING GEAR HANDLE (785SA1)
TABLE I F-14 SORTEL SIGNAL TRANSDUCERS	Present Signal Characteristics	UP AND LOCKED = SALTCHED GND UNLACKED = OPEN	> 400 PSI SALTCHED < 400 PSI = 28VDC SALTCHED 28VDC	> 400 PSI = SMITCHED 28VIC < 400 PSI = SMITCHED 28VIC	OFF = OPEN	ACTIVE = GND INACTIVE = OPEN	RETRACTED/PAR OFF = SMITCHED GND EXTENDED = OFEN	NETRACTED/PAR OPF = SMITCHED GND EXTENDED = OPEN
TABLE I P	6 Transducer Type	LIMIT SMITCH (DPOT)	PAESSUPE SALTCH	PRESSURE	N/A (ENABLE SIGNAL)	ENABLE	PROXIMITY/ RELAY DRIVEN SMITCH	PROXIMITY/ RELAY DRIVEN SWITCH
	Point of Origin	RIGHT MLG WHEEL WELL STA 570	LEFT SIDE STA 410 WL 130	LEPT SIDE STA 410 WL 130	NOSE WHEEL WELL STA 260 WL 120	PILOT'S RIGHT SIDE CONSOLE STA 225	LEFT FUESIAGE STATION 564	RIGHT PUESLAGE STATION 564
	91gmel Source Box Identification	RIGHT MLG DOOR POSITION SMITCH (75814)	SMITCH (4751)	RIGHT BHAKE PRESSURE SMITCH (4782)	SKID CONTROL BOX (82A1)	PILOT CAUTION ADVISORT INDICATOR (69A1)	LEFT BRACE PROXIMITY SMITCH SMITCH (75811)	RIGHT BRACE PROXIMITY SMITCH (75S12)
	3 Identifier Code	GJS 208	dcs 209	GCS 210	GCS 211	NUS 212	GBS 213	GBS 214
	2 Signal News/Punction	RIGHT MLG POSITION - UP AND LOCKED	PRESSURE - > 400 PSI	RIGHT BRAKE PRESSURE - > 400 PSI	SKID CONTROL- PAR LOSS	LIGHT TEST- ACTIVE	LEFT MLG RETRACTED	HIGHT MIG RETRACTED
	Table Ite	508	80	210	211	212	23	412

SHEET 5	13 Conditioning Technique	ADAFTER ADAFTER
FIGURE 30	12 Associated Boolean Equation	662
	11 Reference Drawings	10. 30 20ME 18B 20ME 18B
	10 Operational Address	011937
	9 Conventional Switches Being Replaced or Deleted	N/A
TRANSDUCERS	8 Associated Loads	DOWN AND LOCKED GRD LOCKED GRD CAUTION ADVISORY (69A1)
TABLE I F-14 SORTEL SIGNAL TRANSDUCERS	7 Present Signal Characteristics	LIMIT SMITCHED (AND 2.00 - SMITCHED) (A100 - C) (A100 -
TABLE 1	6 Transducer Type	
	S Point of Origin	PLOT'S CONSOLE STA 225
	81gmal Source Box Identification	FIAP LEVER P/O THROTTLE QUADRAIT (711A1)
	J Identifier Code	0.08 215
	2 Signal Name/Punction	> 10°
	Table Ital	215

	_						
PTOUR 30 SHEET 1	2	Associated Boolean Equations	278		. S	7 97	595
Ĕ	=	Reference Drewfings	IMSPD FIG. 30 ZONE 4C, 3C 4A, 3A, 1A	INSFD FIG. 30 ZONE 6B, 5B, 1B	IMSED FIG. 30 ZOME 18, 68, 7C	INSPD FIG. 30 ZONE BC, 7C 7B	INSED FIG. 30 ZONE 6C, 5C LB
	10	Identifier Code	gdf. 278	GAL 279	GAL 280	GAS 281	GAL 282
	6	Operational Address	12060	O4Q41	০ 4. ৫ 4.2	०५०५ 3	Origina
TABLE II P-14 SCLID STATE POWER CONTROLLERS AND DRIVERS	60	Conventional Devices Being Replaced	CB5 (5A) MLG HANDLE RLY NO. 1 (36A2) P/O K32 MLG SAPETY B (R. GLOVE RELAY BOX T72A1)	CB44 (5A) MLG STRUT LD: NAR ADVST (36A2) P/O AC EXTENSAL. PHR CONTACTOR (66AK3) PHR CONTACTOR (61AX PHR CONTACTOR (61A	CB44 (4A) NIG STRUT LCH BAR ALUNST (36A2) P/O KB6-NOSE KNEEL RELAY P/O K1-MLG HARDLE C P/O K1-MLG HARDLE C P/O K1-MLG SAFETY C RELAY RELAY (L. GLOVE RELAY BOX 77341)	CBM, (SA) RIG STRUT LICH BAR AUVST (\$6.2) P/O K93 - LAURCH BAR NOT STONED P P/O K93 - LAURCH BAR CAUTTON P/O KW MIG SAPETT I P/O KW MIG SAPETT I (L. GLOVE RELAY BOX 773A1)	cbal (3a) nij strut izh bar advst (36a2)
ID STATE POAR	-	P.C. Location					
NE 11 7-14 60	9	Load Power Dissipation					
a	8	Duty					
	•	Associated Loads	LOCK SOLINOID P/O LANDING GEAR HANDLE (785A1)	EXTEND SOLINOID P/O RIG FRANSPER VALVE (741.1)	KREEL SOLINOID P/O NIG TRANSPER VALVE (74.1.1)	SEQUENCING SOLLNOID PIO NICS SEQUENCING CONTROL VALVE (7412)	SELECTOR SOLINOID P/O LAURCH BAR ADORT SELECTOR VALVE (7413)
	•	Rating V & I	v=28vDC I=5A	V=2BVDC	V=28VDC	V=28VDC	V-28VIXC
	~	Type of Power Controller	DC-1 POLE	30-1 Pol.	lo-1 Pol.	x-1 Folk	oc-1 fole
	-	Table Item	278	\$2	580	₩.	582

PLOUIS 30 SHEET 2	ส	Associated Boolean Erralions	283	19 2 .	585	286	287	598
, and	#	Reference Drevings	INSPD FIG. 30 ZONE 1B, 11A, 12B	IMSPD FIG. 30 ZONE 1B, 11A, 12A	INSPD FIG. 30 ZONE 14B, 13B 1B	IMSPD FIG. 30 ZONE 1C, 5A 7A, 9A	INSPD FIG. 30 ZONE 9A, 8A, 8B, 7A, 7B, 5A	IMSPD FIG. 30 ZONE 17A, 19A LA
	og	Identifier Code	oot. 283	49Z T90	GKL 285	GFL 286	сн. 287	gpr 588
	6	Operational	04.045	94040	Okq48	7-4-4-7	64940	0.2046
TABLE II F-14 SOLID STATE POWER CONTROLLERS AND DRIVERS	0	Conventional Devices Being Replaced	CB31 (5A) BAIN REL/ AWTI-1CE CONTR/HE CONTR (36A2) P/O K23 HOOK/AUX P/O K23 HOOK/AUX (L. GLOVE RELAY BOX 773A1)	CB31 (5A) RAIN NPL/ ANTI-ICE CONT/HK CONT (36A2) P/O K23- HOOK/AUX FLAP ISOLATION	CB15 (5A) ANTI SKID- R AICS LK UP PAR (36A2) P/O K6-NLG HANDLE D	CBB (3A) NOSE WHEEL PYOR K21 MLG SAPETY E PYO K27 NOSE WHEEL PYO K27 NOSE WHEEL PYOR K28 NOSE WHEEL STEENING NO. 1 STEENING NO. 2 STEENING NO. 2	THER AT AT HOSE WHEEL STEER AT	CHE (3A) WHEELS FOS. IND (36A2)
ID STATE FORE	1	P.C. Location						
NE 11 1-14 80	•	Load Power Dissipation						
A	•	Duty						
	•	Associated Loads	HOOK SOLINOID P/O ARRESTING HOOK CONTROL VALVE (491.1)	UFLOCK SOLINOID P/O ARRESTING HOOK CONTROL VALVE (49L1)	SKID CONTROL BOX (82A1)	NOSE WREEL STEENIN MONITOR (59A1) (28VDC)	SHUTOP SOLINOLD PLO NOSE WREEL STEERING DANFER UNIT (59L1)	NLG DOWN AND LOCKE: PLAG PFO WIEELS-PLAPS POSITION INDICATOR (78M1)
		Pating V & I	V-28VDC	V-28VDC	v-28vDC	V-28VDC	V-28VIC	(OPEN/GND)
	~	Type of Power Controller	DC-1 POLE	DC-1 POLE	DC-1 POLE	DC-1 FOLE	DC-1 FOLE	ENABLE DRIVER
	-	Table Item	283	7 9 7	592	98	267	288

ส	Associated Booless Equations	289	590	, 16 2	8%	293	₹.	\$ 6	5%
n	Reference Drewings	IMSPD FIG. 30 ZONE 17A, 1A	IMSPD FIG. 30 ZONE 19A, 17A 1A	IMSFD FIG. 30 ZONE 20A, 17A 1A	INSPD FIG. 30 ZONE 20B, 17A 1A	INSPD FIG. 30 ZONE 20C, 17A 1A	INSFD FIG. 30 ZONE 17A, 20B 1A	IWSFD FIG. 30 ZONE 1B, 7C 13A, 15A, 17C	INSPD FIG. 30 ZONE 15B, 16B
01	Identifier Code	6PZ 7115	GJI 290	GDL 291	ort 390	abt. 293	₹2 113	GLL 255	gor 296
6	Operational	74020	O2D48	02P49	05020	oznsa	oznyz	02053	*oogoo
8	Conventional Devices Being Replaced	CB6 (3A) WIEELS POS IND (36A2)	CB6(3A) WREELS POS IND (36A2)	CBG (3A) WHEELS POS IND (36A2)	CBG (3A) WREELS POS IND (3GA2)	CIND (36A2) LND (36A2)	CDG (3A) WREELS POS. IND (3GA2)	CB19 (5A) HYD VALVE CONTH (36A2) P/O KB4 - TRANSPER HANP SHUTOPP (LEFF GLOVE NELAY BOX 773A1)	N/A
-	P.C. Location								
•	Load Power Dissipation								
~	Duty	Y oot							
•	Associated Loads	WHEEL-FIAPS FOSITION INDICATOR - 28VDC FWR (78M1)	NILG UP AND LOCKED FLAG F/O WHEELS-FLAPS FOSITION INDICATOR (7840.)	LEPT MIG DOMN AND LOCKED FIAG P/O WHEELS-FIAPS FOSITION INDICATOR (7841)	LEFT MIG UP AND LOCKED FLAG P/O WHEELS-FLAPS POSITION INDICATOR (78M1)	RIGHT MIG DOWN AND LOCKED FLAG P/O WHEELS-FLAPS POSITION INDICATOR (78M1)	RIGHT MIG UP AND LOCKED FLAG P/O WHEELS-FLAPS POSITION INDICATOR (78M1)	AUX BHK/SKID CAUTION LAMP P/O PILOT CAUTION ADVISORY INDICATOR	SKID CONTROL BOX (BZA1)
3	Pating V & I	v=28VDC	OPEN/GND	OPEN/GND	OPEN/GND	OPEN/GND	OPEN/GND	OPEN/28VDC	GND/OPEN
~	Type of Power Controller	ENABLE DRIVER	ENABLE DRIVER	ENABLE DRIVER	ENABLE DRIVER	ENABLE DRIVER	ENABLE DRIVER	ENA BLE DRIVER	RELAY DRIVER
7	Teble Ite	589	88	291	or o	593	\$	\$	582
	1 0 6 7 8 9 10 11	Type of Fating Associated Loads Controller V h I Associated Loads Controller V h I Associated Loads Controller V h I Controller V h I Controller V h I Controller Con	11 12 13 14 5 66 7 8 9 10 11	Type of Free	Type of Phote Ph	Page of Power Page of Powe	Type of Part Part	Part Part	Part Part

21	Associated Boolean Equations	162	%	. \$
п	Reference Drewings	IWSFD FIG. 30 ZONE 12B, 12A 17C	INSPD FIG. 30 ZONE 18B, 17B 18C, 19A, 20A 20C	194, 204, 205
10	Identifier Code	USZ 1990	GLL 298	MI 299
6	Operational	45020	02055	95000
60	Conventional Devices Being Replaced	N/A	CIEC (3A) WHEELS FOS IND (36A2)	V/W
7	P.C. Location			
9	Load Power Dissipation			
2	Duty Cycle			
•	Associated Loads	HOOK TRANSIT INDICATOR LIGHT DSI P/O HOOK/GUN PANEL (706A1)	DSI TRANSIT INDICATOR LIGHT P/O LANDING GEAR HANDLE (785AL)	DOWN AND LOCKED GND INFUT P/O FILOT CAUTION FOR STATE CAUTION (6/AL)
	Pating V & I	V-28VIC	v=28vpc	GND/OPEN
N	Type of Power Controller	LAMP DRIVER	LAMP DRIVER	DRIVER
-	Table Item	297	88.	§
	3 6 7 8 9 10 11	1	Type Power Patie Patie	The Park Par

MOUNE SHEET T	9	Mquation Description & Notes	LANDING GEAR HANDLE LOCK SOLLINOID ENERGIZED - (Unicoced) = Lept <u>or</u> right m.g Weight Not on where.	MLG TRANSPER VALVE EXTRAID SOLINOID ENENCIZED (28VDC) = NOSE STRIT - EXTD AMD EXTREMAL AG PAR - NOT ON LINE OR (COMBINED STS. PRESS-7450 PSI AND MLG HANDLE - DAM AND LEPT OR RIGHT MLG - WEIGHT ON WHEELS NOT)	NLJ TRANSPRA VALVE KNEEL SOLINOID ENENGIZED (28VDC) = COMBINED SYS, PRESS, - 5450 PSI AND NLG MANDLE- DOWN AND LEFT AND KIGHT MLG WEIGHT ON WHEELS AND NOSE STRUT - KNEEL	NIG SEQUENCING CONTROL VALVE SOLINOID - EMERGIZED (NIG RETRACTION INITIATED) - LAUNCH BAR - EXTENDED ALD (LEFT OR RIGHT MIG-WEIGHT ON WREELS AND COS) OR ((LEFT OR RIGHT THROTTLE - CALL PRI) AND COBLINED SYS. PRESS - > 450 PSI AND NIG IANDLE - DOWN AND LEFT AND RIGHT MIG - WEIGHT ON WIEELS AND NOSE STRITT KNEEL	LAUNCH BAR ABORT SELECTOR VALVE SOLINOID ENERGIZED LAUNCH BAR - ABORT	AMBESTING HOR CONTHOL VALVE (HOOK SOLINOID) - EMENGIZED = FLT HYD PRESS - NOBAAL AND HOOK CONTROL HANDLE - UP AND HOOK - NOT STOKED AND LEFT OR RIGHT MLI - WEIGHT ON WHEELS NOT	ARRESTIN; HON CORTHOL VALVE (UPLOCK SOLINOID) ERERIZED = FLT HYD PRESS-NOMAL AND HON CORTHOL HANDLE - LOAM AND LEFT OR RIGHT MIG VEIGHT ON WEELS NOT
2	7	Reference Drewings	IMSPD FIG. 30 ZONE 4C, 3C, 4A, 3A, 1A	INSFD FIG. 30 ZONE 6B, 5B, 1B 70	INSPD FIG. 30 ZONE 18, 68 70	INSED FIG. 30 Zone 78, 3B, 7C, 5B, 1B	INSPD FIG. 30 ZONE 6C, 5C, 1B	INSFD FIG. 30 ZONE 1B, 11A, 12A	INSPD FIG. 30 ZOME 1B, 11A 12A
TABLE III P-14 SOSTE, BOLLEAN EQUATIONS	9	Special Considerations	ESS. NO. 2 BUS	ESS. NO. 2 BUS	ESS. NO. 2 BUS	ESS. NO. 2 BUS	ESS. NO. 2 BUS	ESS. NO. 2 BUS	ESS. NO. 2 1918
TABLE III P-14 S	•	Bus/Load Management Priority	æ	a	a	N.	Q.	N	α
		Solid State Controller List Cross Reference	278	279	280	281	582	283	₹.
	9	Transducer List Cross Reference	705	900 100 163 191 191	900 952 108 163	1022 00 1032 1033 103 1034 1035 1035 1035 1035 1035 1035 1035 1035	981	932 949 194 102	2.8.8.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.
	2	Boolean Equation	GDL 278 = GDS 002 + GDS 102	441 279 = (4A8 191. 4A8 169) • EPS 163 • GDS 602 • (GDS 602 • GDS 102)	GAL 280 = EFS 163 edbs 05c = GbS 00C eGbS 10C = GAS 192	cal. 281 = [cas 193 • (578 502 • (558 102)) [(qk3 194 • qk3 195)• EPS 163 • (558 502) • (558 192)	GAL 282 = GAS 196	GGL 283 = DHS 032 • GGS 049 • GGS 197 • GBS 002 • GBS 102)	6.05.3.04 • (dis 002 • (dis 102 • 05.3.102 • (dis 002 • (dis 002 • 05.3.102 • (dis 002 •
	-	Table Item #	81.2	279	580	281	38	283	5 0

1									
PLOURE 30 SHOET 2	80	Mquation Description & Notes	SKID CONTROL BOX - 28 VDC - ANTI-SKID/SPOILEN BRAKE - BOTH AND HANDLE - DOWN	NOSBAHEEL STREKLING MONITOR (28VIC) = AUTO PILOT ENCACE NOSBAHEEL STERRING POSHBUTTON SAITCH-ON AND LEFT AND RIGHT MIG - WEIGHT ON WHEELS	MOSE WREEL STEERING LANGER UNIT SHUT OFF SOLINOLD BERKIEZED (OPER) - I LAUNCH MARKETARDED AND LEFT OR RIGHT - KEIGHT ON WREELS MOT OR [LEFT OR RIGHT HIGHTILE - C MIL PHA] AND COGREDISD STS, PERSS - 1-50 PSI AND MIL HANDLE-LOUN AND NOSE STAT-KREEL] OR [LEFT AND RIGHT PHOTTLE-IDE AND HOOK IS OR WAS MAY STONED AND LEFT AND RIGHT MICH PROOK IS OR WAS HIGHT THNOTTLE AND NOSE TO WREELS OR [LEFT AND RIGHT THNOTTLE AND NOSE TO SERVED AND STATE OF WEEL-WEIGHT ON WREELS WERN THE ANTO PILLY ENGURE NOSEMBEL STEERING HOSE WREEL, STEERING MAITOR PLOT STONED NOSE WREEL, STEERING MAITOR MOT OFF J. NOSE WREEL, STEERING MAITOR BOX (59AL) AND IS THERE	NLJ DOMN AND LOCKED PLAG - EMERGIZED = NLG - DOWN AND LOCKED	WHEELS-FLAPS POSITION INDICATOR (28VDC FWR) = 28VDC ESS, NO. 2 BUS EMERGIZED	NIG UP AND LOCKED FIAG - ENERGIZED = NIG - UP AND LOCKED	LEPT MIG DONN AND LOCKED FLAG-ENERGIZED = LEPT MIG - DONN AND LOCKED
2	1	Reference Drawings	IWSFD FIG. 30 ZONE 14B, 13B 1B	IMSPD PIG. 30 ZONE 1C, 5A, 7A, 9A	INSPD PIG. 30 20.88, 34, 58, 68, 54, 58, 1C	IWSPD FIG. 30 ZONE 19A, 17A, 1A	IWSFD FIG. 30 ZONE 17A, 1A	IWSPD FIG. 30 ZONE 19A, 17A, 1A	INSPD FIG. 30 ZONE 20A, 17A 1A
TABLE 111 P-14 SOSTEL BOOLEAN POUNTIONS	9	Special Considerations	ESS. NO. 2 BUS	ESS. NO. 2 BUS	b) ESS. NO. 2 BUS b) *REQUIRES LOCK UP (LATCHING RUNCTION)	ESS. NO. 2 BUS	ESS. NO. 2 BUS	ESS. NO. 2 BUS	ESS. NO. 2 BUS
TABLE III F-14 :	\$	Bus/Load Management Priority	8	O.	A)	C)	2	2	N
		Solid State Controller List Cross Reference	285	586	267	288	589	96.7	162
	3	Transducer List Cross Reference	952 198	900 100 136	2	S\$90	N/A	205	203
	8	Boolean Equation	GKL 285 = GKS 198 • GDS 052	GHL 286 = GHS 199 • GDS 002 • GDS 102	CHR 20 CHR 193 CHR 20 CHR 20	GDL 288 - GDS 085	GLL 289	GJL 290 + GJS 202	abt. 291 = 405 203
	7	Table Item #	285	286	287	588	289	8	t62

PTCURE 30 SHEET 3		Equation Description & Motes	LEFT NLG UP AND LOCKED PLAG - EMBRITZED = LEFT NLG DOOR-UP AND LOCKED AND LEPT NLG POSITION - UP AND LOCKED	RIGHT MIG LOWN AND LOCKED FLAG - ENERGIZED = RIGHT MIG - DOWN AND LOCKED	RIGHT MIG UP AND LOCKED FLAG - ENENGIZED - RIGHT MIG DOOR - UP AND LOCKED <u>and</u> right mig Position - UP and Locked	AUX BRA/SKID AUVISORY - ON = SKID CONTROL - PAR DOWN ON ECOME, SEX. PRESS 1450 PS 104 [(TWANDER F HANG-ON ON LEAT ON HERELS NOT OR EXTENDAL AC TWH - NOT ON LINE) AND (FIT. HTD. PRESSURE TOW HORSOLD ACK DAY ON THE GO OF COMBINED STS. PRESSURE - NOT NORMAL) AND (LETT OR ROBERT BRAKE PRESS - < 400 PSI) OR SKID CONTROL - PAR LOSS	SKID CONTROL BOX - WEIGHT OPP WHEELS INVIBIT = LEFT AND RIGHT MIG - WEIGHT ON WHEELS NOT	HOW TRANSIT INDICATOR LITE - ON - LIGHT TEST-ACTIVE OR (HOCK CONTROL HARINE-UP AND HOOK-NOT STORED) OR (HOCK CONTROL HARDIE-DOWN AND HOCK-NOT DOWN)	DEST TRANSIT INDICATOR LIGHT (P/O LANDING GEAR HANDLE) (MLD DOOR - UNICOCKED OR LEFT MLD RODE-UP AND. (MLD DOOR - UNICOCKED OR LEFT MLD DOOR-UNICOCKED DR. LEFT MLD POSITION - UNICOCKED OR RIGHT MLD DOOR - HANDLE - DOWN AND (MLD - UNICOCKED OR LEFT OR WIGHT MLD MLG - RETACTED OR LEFT OR RIGHT MLG - UNICOCKED OR WHERLS - FLAPS POSITION INDICATOR - UNICOCKED)
	7	Reference Drawings	IWSFD FIG. 30 ZONE 20B, 17A LA	IWSPD FIG. 30 ZONE 20C, 17A 1A	IMSFD FIG. 30 ZONE 17A, 20B 1A	IMSPD FIG. 30 20NE 17C, 15A, 13A, 7C, 1B	IMSFD FIG. 30 ZONE 15B, 16B	INSFD FIG. 30 ZONE 12A, 12B, 17C	INSPO FIG. 30 ZONE 189, 17C, 19, 20,
TABLE III F-14 SUSTEL BOOLEAN BRUATIONS	9	Special Considerations	ESS. NO. 2 BUS	ESS. NO. 2 BUS	ESS. NO. 2 BUS	ESS. NO. 2 HUS	ESS. NO. 2 BUS	ESS. NO. 2 BUS	ESS. NO. 2 BUS
TABLE III P-14	2	Bus/Load Management Priority	8	Q.	QJ.	Q	æ	a	α
	-	Solid State Controller List Cross Reference	8 6 2		₹.	\$62	5%	297	962 (989)
	3	Transducer List Cross Reference	507 508	907	207	20 00 00 00 00 00 00 00 00 00 00 00 00 0	200 201	04.9 05.1 199	25 25 25 25 25 25 25 25 25 25 25 25 25 2
	8	Boolean Equation	GJL 292 = GJS 204 • GJS 205	GDL 293 = GDS 206	GUL 294 - GUS 207 • GUS 208	01L 295 - 003 211 + 1 1 1 1 1 1 1 1 1	GDL 296 = GDS 002 • GDS 102	001, 297 = MIS 212 + (003 049 • 003 197) + (003 049 • 003 051)	001. 298 = Mus. 212. (101. 204 Mus. 202 Mus. 204
	-	Table Item #	88	293	\$	%	% %	291	96.7

80	Equation Description & Notes	DOMM AND LOCKED - GND TO THE FILOT CAUTION ADVISORY INDICATOR = FIAD LEVER - > 10° ARD (RIGHT OR LEFT THE GUITE - < 40°) ARD, (INT DOMN - UNICOCKED OR LEFT TOR RUGHT MIG - UNICOCKED OR HYBELS - FIAFS POSITION INDICATOR - UNFOWERED) POSITION INDICATOR - UNFOWERED)
7	Reference Drawings	198, 204, 205, 196, 198, 204, 205, 205, 205, 205, 205, 205, 205, 205
9	Special Considerations	ESS, NO. 2 BUS
•	Bus/Load Management Priority	a
	Solid State Controller List Cross Meference	(685)
	Transducer List Gross Reference	0.05 11.139 20.3 2.2 4 2.2 4 2.2 5 2.3 5
a	Boolean Equation	M. 1. 299 - 038 215 • (MS 194) - 038 211 • 038 214 - 038 211 • 038 205 • 011 209 • 038 206 • 011 209
-	fable Item #	\$
	2 3 4 5 6 7	2 3 bolid State 5 controller Transducer Controller Shongement Special Special Beforence Boolean Equation

SHEET 1	13 Conditioning Technique	Solid State	Solid State	Solid State	Solid State	Solid State	Enternal Signal Adapter
PTOURE 32 SHEET 1	12 Associated Boolean Equation	% T 8 % T 8	88.85	6 6	212 200 200 270 270 736	212 201 203	502
	11 Reference Drawings	32 Zone 94	IMSFD F1g. 32 Zone 32, 31, 1B	INSFD F1g. 32 Zone 32, 31, 1B	IWSFD F1g. 32 Zone 38B	IWSFD F1g. 32 Zone 38B	188PD P1g. 32 Zone 39A. 27A
	10 Operational Address	82420	02P29	02P30	04P10	O4P13	оттее
	9 Conventional Switches Being Replaced or Deleted	KE5 Rum Air Source - Rum Air Yilaer Push Button Switch Relay Box 772Al) Shut Off Valve (Knabe) (Creap Cites and Sair Switches and Switches and Switches Switches and Switches and Switches and Switches Switches Switches Switches Switches Switches Switches Switches	Rom Air Switch (S2)	Rem Air Switch (82)	GND CLG Switch (83)	GND CLG Switch (S3)	N/A
TRANSDUCERS	8 Associated Loads	a) K25 Ram A1r/Tlacer Relay Box 772A1) b) Shut Off Valve (Enable) c) Over Temp 4231 and 42552	Emergency Ram Air Door Actuator (4212) (Extend)	Emergency Ram Air Door Actuator (42L2) (Retract)	Ground Cool- ing Diverter Valve Actu- ator (42L12) (Retract)	Ground Cool- ing Diverter Valve Actu- ator (42112) (Extend)	
TABLE I F-14 SOSTEL SIGNAL TRANSDUCERS	7 Present Signal Characteriatics	Nam Selected = Switched 28VIC Switched 28VIC Ram Not Selected = Open	INCR = Switched 115VAC Off or DECR = Open	DECK = Switched 115VAC Off or INCR = Open	OBC/Cabin = Switched 115VAC Off or AWG9/Aim 54 = Open	Toggle Switch AWG9/Aim54 = Switched 115/AC Off or OBC/Cabin = Open	Kil - Electronic Cooling (Right Glove Relay Box 772Al)
TABLE I	6 Transducer Type	Push Button P/O 5 Menual Operated, Mechanically Interlocked Self-Cancel	Toggle switch (SPDTCO)	Toggle Switch DECR = (SPDTCO) Switch Off or Open	NPO's Toggle Switch OBC/Cabin = Right Side (DPITCO) Switched 115 Console Off or AMG9/ STA300 54 = Open	Toggle Switch (DPDTCO)	>30000 Pt = Switched 28VDC <30000 Pt = Open
	5 Point of Origin	Pilots Right Side Console STAZ25	Filots Right side console STA 225	Pilots Right Side Console STA225	NFO's Right Side Console STA300	MFO's Toggle Signification (DPDTCO) Console STA300	Right Side STA 500 WLI 30
	4 Signal Source Box Identification	Air Condition Control Panel (421)	Ram Air S2 Switch P/O Air Condition Control Panel (42A1)	Rem Air Switch S2 P/O Air Condition Control Panel (42A1)	Test Panel (720Al)	Test Panel (720Al)	Ameroid Allitude Switch - Aircraft Switch - Aircraft I Temperature Electronic Control (4cA8)
	3 Identifier Code	HMS124	HQS125	HQS126	HDIS 127	HNS128	HCS1.29
	2 Signal Name/Punction	Alr Source - Ram Selected	Ram Air - INCR (Associated with Item 126)	Rem Air - DECK (Associated with Item 125)	GND CLG-OBC/ CABIN (Associated with Item 128)	GND CLG-AWG9/ AIM54 (Associ- sted with Item 127)	93000 ± 2000 Feet
	Table Ites#	ਜੈਟ ਾ	125	126 .	127	128	129

SHEET 2	13 Conditioning Technique	External Signal Adapter	Solid State	Solid State	External Signal Adapter	External Signal Adapter
FIGURE 22 SHEET 2	Associated Boolean Equation	210		217	23 23 24 24 24 24 25 25 26 26 26 26 26 26 26 26 26 26 26 26 26	232 236
	11 Reference Drawings	IWSFD Fig. 32 Zone llC	32 Zone 28	JWSFD F1g. 32 Zone 2B	IMSPD F1g. 32 Zone 20	32 Zone 2B
	10 Operational Address	077821	75. T.	ಷ ₁₈₀	12050	051822
	9 Conventional Bwitches Baing Replaced or Deleted	N/A	Air Source-Off Push Button Switch	Air Source - L. Eng. Push Button Switch	N/A	N/A
AL TRANSDUCERS	8 Associated Loads	K13 - Low Mach Pressure No. 1 (Left Glove Relay Box 773A1)	left Bleed Air Shadoff Valve (4211) Kight Bleed Air Shudoff Valve (4211) Theer Liber Lor and Shudoff Vol Valve (4214) Coff Valve C	Right Bleed Air Shatoff Valve (42L11)	Right Bleed Air Shutoff Valve (421.11)	Right Bleed Air Shutoff Valve (42L11)
TABLE I F-14 SOSTEL SIGNAL TRANSDUCERS	7 Present Signal Characteristics	 <0.4 Mach Signal = GND <0.4 Mach Signal Not = Open or 28VDC 	Off a Switched 28Vpc Off Not a Open	L. Engine = Switched 28VDC L. Engine Not = Open	c400 = Switched 28VDC >400 = Open	داری = Switched 28vic کاری = Open
TABLE ! !	6 Tracaducer Type	Relay Driver Signal From Air Data Computer	Path Button P/0 5 Munal Operated Mechanically Interlocked Salf Cancel- ling Switches	Push Button P/O 5 Manual Operated Mechanically Interlocked Self Cancel- ling Switches	Limit Switch	Limit Switch
	Point of Origin	Right Side STA ^{4,00} WL170	Pilota Right Side Consola STA225	Pilots Right Side Console STA225	Pilots Left Side Console STA225	Pilots Left Side Console STA225
	81gmel Source Box Identification	(OSA1)	Air Condition Control Panel (42A)	Air Condition Control Panel (42Al)	Throttle Quadrant (711A1)	Throttle Quadrant (711A1)
	3 Identifier Code	F18130	HMS137	HMS138	KAS139	КА В140
	Stgnel Stgnel	co.4 Mach Signal	Off	Air Source - L. Engine	Left Throttle Start Cross BL - <400	Hight Throttle Start Cross BL - <400
	-11	3.1	133	138	139	140

SHEET 3	Conditioning Technique	External Signal Adapter	External Signal Adapter	Solid State	Solid State	Solid State	Solid State
PICURE 32 SHEET 3	12 Associated Boolean Equation	212	212	213	1 12	215	217
	11 Reference Drestings	IWSFD Fig.	IWSFD Fig. 32 Zone 2B	32 Zone 2A	INSPD Fig.	32 Zone 94	32 Zone 15B
	10 Operational Address	05023	05D24	œP33	05P16	4€450	O4 P1 2
	9 Conventional Switches Being Replaced or Deleted	N/A	N/A	Air Source - R. Eng. Push Button Switch	Bleed Duct Over Pressure Switch (4284)	Aircraft Air Temp. Man/Auto Temp. Else- Event. Else- Evol. (42A8) K26 REFRIG 1 (R. Glove Relay Box 772A1)	(Snap Action) 28000 = Switched Shutoff Valve Over Temperature FOO Bleed Switch (5500°F) (4882) (Anna Action) 28000 Air Flow Air Flow Godilating Pressuring
TRANSDUCERS	8 Associated Loads	Right Bleed Air Shutoff Valve (4211)	Right Bleed Air Shutoff Valve (42L11	Left Bleed Air Shutoff Valve (42L11)	K78 - Bleed Air Shutoff (R. Glove Relay Box 772Al)	Aircraft Air Temp. Elec- tronic Con- trol (42A8) K26 KEFRIG 1 (R. Glove Relay Box 772A1)	Shutoff Valve P/O Bleed Arr Flow Hodulating Pressure Regulating and Shutoff Valve Assembly
TABLE I F-14 SOSTEL SIGNAL TRANSDUCERS	7 Present Signal Characteristics	Cut Off = Switched 28VDC >Cut Off = Open	Out Off = Switched 28VDC >Cut Off = Open	R. Eng. = Switched 28VDC R. Eng. Not = Open	High = Switched 28VDC Low = Open	Auto = Switched 28VDC Man = Switched 28VDC	>5500P = Switched 28VDC <5500P = Open
TABLE 1	6 Transducer Type	Limit Switch	Limit Switch	Pilota Push Button Right Side P(0 5 Mannal) Console Operated, Mechanically Interlocated Self Cancel- Ling Switches	Pressure	Pilot's Toggle Statch Stor Console STA225	(Snap Action)
	5 Point of Origin	Pilots Left Side Console STA 225	Pilots Left Side Console STA225	Pilots Right Side Console STA225	Puse lage STA420	Filot's Right Side Console STA225	Stado2 Stado2
	la Surce Signal Source Box Identification	Throttle Quadrant (711A1)	Throttle Quadrant (711A1)	Air Condition Con- trol Panel (42A1)	Bleed Duct Over Pressure Switch (4254)	Air Condition Control Panel (42A1)	Over Temperature Switch (550P) (4282)
	3 Identifier Code	KAS141	KAS142	HNS143	ተሳ ፤ S [†]	HNS145	низтьб
	2 Bignal Masse/Punction	Left Engine BL Air Valve Switch - Cut Off	Right Engine BL Air Valve Switch - Cut Off	Air Source - Right Engine	Bleed Duct Over - Pres- sure - High	Temp - Auto	over femperature - 550°F
	Their	141	142	£41	ą.	s _{नर}	146

1	13 Conditioning Technique	Solid State	External Signal Adapter	Solid State	Solid State	Solid State
Troops ones	12 Associated Boolean Equation	па	219	220	122	217
	11 Reference Drawings	32 Zone 15C	IWSFD F1g. 32 Zone 11C	IMSFD F1g. 32 Zone 17B	32 Zone 198	1MSPD Fig. 32 Zone lA MAVAIR OL- FILMAN-2-2- 6 Section OOF 00 Pege ll/
	10 Operational Address	04P13	отке	02P35	œP36	92490
	9 Conventional Switches Being Replaced or Deleted	over Temperature Switch (475°F) (4281)	N/A	Cabin Press Dump/ Normal Switch (S3)	"Cabin Press! Cabin Low Pressure Light - Pio Navisory Advisory (6,94241)	
	8 Associated Loeds	Shutoff Valve P/O Bleed Air Flow Modulating Pressure Regulating and Shutoff Valve As- sembly	K15 - Low Mach Cooling No. 2 (Left Glove Relay Box 773A1)	Cabin Pressure Safety Valve (42L1) Solenoid	"Cabin Press" Light - P/O NFO Caution Advisory Indicator (69A2A1)	"L. Oil Hot" Light - P/o Pilot Caution Advisory (fodal)
	7 Present Signal Characteristics	A750F = Sw1tched 28VDC <4750F = Open	.0.25 Mach = GND >0.25 Mach = Open or 28VDC	Toggle Switch Dump = Switched 26VDC Norm = Open	Low Pressure (<5 PSI) = Switched 28VDC Low Pressure Not = Open	Hot (-2500/2608)"L. 011 Hot" (Closed) = [Light - P/0 Sutched 28WC pliot caution Not Hot (-25008) Advisory (Open) = "Open" (66a1)
	6 Transducer Type	(Snap Action)	Right Side Relay Driver STA400 Signal From WL170 Air Data Computer	Toggle Switch	Pressure Switch	Left Engine 011 Temper- ature Suftch (70A4)
	5 Point of Origin	STA363	Right Side STA400 WL170	Pilots Right Side Console STA225	Puse lage STA220	Fig.1 ne
	ly Signal Source Box Identification	Over Temperature Switch (4750F) (4281)	(05A1)	Air Condition Control Fanel (42A1)	Cabin Low Pressure Switch (4283)	Left Engine 011 (70A4)
	3 Identifier Code	HNS.14.7	FLS148	641841	HF3150	pe151
	Signal Name/Punction	over Temper- ature - 4750F	 20.25 Mach Signal 	Cabin Press - Dump	Cabin - Low Pressure	Left Engine Oil - Hot (>2500/26.00F)
	Table Ita	741	148	149	150	161

13 13 14 15 15 15 15 15 15 15				
Signal Gode Board Conventions (Cost Signal Sucress Figure 1) Signal Sucress (Cost Signal Sucress Figure 1) Signal Suc	SHEET 5	13 Conditioning Technique	Resistor Divider Adapter	Solid State
Signal Cook Bard Signal Sures Point of Transdeer Present Signal Associated September 1	FIGURE 32		223	
Signal Cook Bard Signal Sures Point of Transdeer Present Signal Associated September 1		11 Reference Drawings	32 Zone 88.	34 Zone 74,
Signal Surve Signal Source Point of Transducer Present Signal Associated Code Box Identification Origin Trype Characteristic Lode Code Drive-On Unit (7004) System Text-System Nov Left From Tion System Text-System Nov Left From Tion Source States Control States Control States Code States Code Code Code Code Code Code Code Code		10 Operational Address	01460	
Signal Goate Bardentification Origin Transducer Present Signal Associated Drive-On Unit (7004) States Transducer Cantion Lamp Drive-On Unit (7004) States Translage tacts of Transducer Cantion Lamp Drive-On Unit (7004) States Trat-States Robert Lacts States States States States Dec Cantion Lamp Drive-On Unit (7004) States Trat-States Robert Lacts States States States States Dec Cantion Lamp States Dec Cantion Lamp Drive-On Unit (7004) States Trat-States Robert Lacts States States States Dec Cantion Lamp Drive-On Unit (7004) States Trat-States Robert Lacts States States States States Dec Cantion Lamp Drive-On Unit (7004) States Trat-States Robert Lacts States States States States Dec Cantion Lamp Drive-On Unit (7004) States Dec Cantion Drive-On Unit (7004) Drive-On Unit (7004) States Dec Cantion Drive-On Unit (7004) States Dec Cantion Drive-On Unit (7004) Dri		9 Conventional Bwitches Being Replaced or Deleted		Switch (S2)
Signal Name/Punction Code Box Identification Origin Type Court of Daracterietics Deliveron Unit (7004) Selected HRB152 System Test-System NFO Left P(0 9 Post-System Percent System Percent System Percent TyAAA) STRA300 System Test-System NFO Left P(0 9 Post-System Percent System Percent TyAAA) STRA300 System Test-System NFO Left P(0 9 Post-System Percent TyAAA) STRA300 System Test-System Percent TyAAA) STRA300 System Test-System Percent TyAAAA SHRA300 SYSTEM SYSTE	TRANSDUCERS	8 Associated Loads	a) Pilot Caution Advisory Indicator (69al) "Bleed Duct" Lamp b) Sys. Test and PMR Panel (790Al) "Go" Lamp	
Signal Code Salgnal Source Code Code Description Lamp Descrip	-14 SOSTEL STOWL	7 Present Signal Characteriatics		
Signal Identifier Box Identification Code Contion Lamp HNE152 Bleed Air Leak Drive-On Unit (70AB) Selected HG2153 System Test-System Selected	TABLE I		Relay Contacts	P/O 9 Post- tion Rotary Switch
Signal Identifier Code Contion Lamp HE152 Drive-On Selected Selected		5 Point of Origin		NPO Left STA 300
Signal Name/Function Caution Lamp Drive-On Selected				System Test-System PMR Panel (1750A1)
Signal Name/Function Caution Lamp Drive-On Selected		3 Identifier Code	HMS 152	ндатьз
Trade Item 1		2 Signal Name/Punction	Caution Lamp Drive-On	Selected
			24	

1		-						
Type of Type	OUR 2 SHEET	ส	Associated Boolean Equations	56 1		161	661	199
Type of Next Next	Ē	п	Reference Drewings	IMSPD F1g. 32 Zone IA, 8B	168FD Fig. 32 Zone 10A, 10B, 9A, 9C, 11A	IWSFD Fig. 32 Zone 1A, 21A	198PD F1g. 32 Zone IA, 31, 32, 1B	1MSFD F1g. 32 Zone 1A, 31, 32, 1B
Total of the control of the contro		07	Identifier Code	HNL195	041136	нитя	66 TIN	но д 299
AC - 1 Pole V = 115VAC Bleed Air Leak Optie AC - 1 Pole V = 115VAC Bleed Air Leak Optie AC - 1 Pole V = 115VAC Elapsed Time Indicator (PARI) AC - 1 Pole V = 115VAC Elapsed Time Indicator (Pari of Bootstrap Nurbine Compressor) (42M1) AC - 1 Pole V = 115VAC Aircraft Air Temperon (42M2) AC - 1 Pole V = 115VAC Aircraft Air Temperon (42M2) AC - 1 Pole V = 115VAC Elapsed Time Air (AC Condition Ing Subsystem) AC - 1 Pole V = 115VAC Elapsed Sam Air (AC Condition Ing Subsystem) AC - 1 Pole V = 115VAC Elapsed Sam Air (AC Condition Ing Subsystem) AC - 1 Pole V = 115VAC Elapsed Sam Air (AC Condition Ing Subsystem)		6	Operational	01458	050	04451	04850	05941
AC - 1 Pole V = 115VAC Bleed Air Leak Optie AC - 1 Pole V = 115VAC Bleed Air Leak Optie AC - 1 Pole V = 115VAC Elapsed Time Indicator (PARI) AC - 1 Pole V = 115VAC Elapsed Time Indicator (Pari of Bootstrap Nurbine Compressor) (42M1) AC - 1 Pole V = 115VAC Aircraft Air Temperon (42M2) AC - 1 Pole V = 115VAC Aircraft Air Temperon (42M2) AC - 1 Pole V = 115VAC Elapsed Time Air (AC Condition Ing Subsystem) AC - 1 Pole V = 115VAC Elapsed Sam Air (AC Condition Ing Subsystem) AC - 1 Pole V = 115VAC Elapsed Sam Air (AC Condition Ing Subsystem) AC - 1 Pole V = 115VAC Elapsed Sam Air (AC Condition Ing Subsystem)	CONTROLLERS AND DRIVER	60	Conventional Devices Being Replaced	CB28 (3A) Bleed Duct AC (35A4)	CB11 (5A) Temp CONTR AC (35A4) P/O K28-Elapsed Time Indicator Shutoff Relay P/O K25-Ram AIr/Timer Relay (Right Glove Relay Box (TZA1) CBC6 (5A) ECS Temp CONTR (36A2)	CBB9 (AA) Air Source CCWTR (36A3) CB11 (5A) Temp CCWTR AC (35A4) (See Item 196)	CB11 (5A) Temp CONTR AC (35AH) (Same na Item 196) CB69 (5A AIX SOUTCE CONTR (36A3) CONTR (36A3) F/O K29 Rum AIX Timer P/O K29 Rum AIX Timer P/O K29 Rum AIX Timer IND Shatoff (Hight AIX Shatoff (Hight) AIX Shatoff (Hight)	Same as Item 198
AC - 1 Pole V = 115VAC Bleed Air Leak Optie AC - 1 Pole V = 115VAC Bleed Air Leak Optie AC - 1 Pole V = 115VAC Elapsed Time Indicator (PARI) AC - 1 Pole V = 115VAC Elapsed Time Indicator (Pari of Bootstrap Nurbine Compressor) (42M1) AC - 1 Pole V = 115VAC Aircraft Air Temperon (42M2) AC - 1 Pole V = 115VAC Aircraft Air Temperon (42M2) AC - 1 Pole V = 115VAC Elapsed Time Air (AC Condition Ing Subsystem) AC - 1 Pole V = 115VAC Elapsed Sam Air (AC Condition Ing Subsystem) AC - 1 Pole V = 115VAC Elapsed Sam Air (AC Condition Ing Subsystem) AC - 1 Pole V = 115VAC Elapsed Sam Air (AC Condition Ing Subsystem)	ID STATE POPE	7	P.C. Location					
AC - 1 Pole V = 115VAC Bleed Air Leak Optie AC - 1 Pole V = 115VAC Bleed Air Leak Optie AC - 1 Pole V = 115VAC Elapsed Time Indicator (PARI) AC - 1 Pole V = 115VAC Elapsed Time Indicator (Pari of Bootstrap Nurbine Compressor) (42M1) AC - 1 Pole V = 115VAC Aircraft Air Temperon (42M2) AC - 1 Pole V = 115VAC Aircraft Air Temperon (42M2) AC - 1 Pole V = 115VAC Elapsed Time Air (AC Condition Ing Subsystem) AC - 1 Pole V = 115VAC Elapsed Sam Air (AC Condition Ing Subsystem) AC - 1 Pole V = 115VAC Elapsed Sam Air (AC Condition Ing Subsystem) AC - 1 Pole V = 115VAC Elapsed Sam Air (AC Condition Ing Subsystem)	B 11 1-14 80	9	Load Power Dissipation					
AC - 1 Pole V - 1159AC	A	٠	Duty	100\$		100\$		
AC - 1 Pole			Associated Loads	Bleed Air Leak Detector Control Unit (70AB) Power Supply		Aircraft Air Temperature Electronic Control (42A6) (P/o Cabin Air Condition ing Subayatem)	Bergency Res Air Door Actuator (422) (Extend Leg.)	Emergency Rom Air Door Actuator (4212) (Retract Leg)
AC - 1 Pole			Peting V & I	v - 115vac pc 1 - 34	v = 115vAC	v = 115vac	v = 115VAC	V - 115VAC
2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		o.	Type of Power Controller	AC - 1 Pole	AC - 1 Pole	AC - 1 Pole	AC - 1 Pole	AC - 1 Pole
		7	Table Ite.	195	8	197	861	661

MIGURE 25 SHEET 2	21	Associated Boolean Equations	200	201	202	203	204	\$60	90
110	=	Reference Drewings	IMSPD F16. 32 Zone 38C, 378 LA	INSPD F1g. 32 Zone 38C, 37B 1A	IWSFD F1g. 32 Zone 46C, 43A, 1A	1WSFD F1g. 32 Zone 46C, 43A, 1A	1WSFD F1g. 32 Zone 34A, 1C	1WSFD Fig. 32 Zone 1C, 33A, 33C	1 MSFD F1g. 378. 30b. 39A. 39A.
	10	Identifier Code	HN12:00	HNL201	HNIZOE	HNL203	HNL204	HNI205	HN1.206
	6	Operational	25040	Olug53	04 0 54	04455	95040	O4q57	
TABLE II F.14 SOLID STATE POMER CONTROLLERS AND DRIVERS	0	Conventional Devices Being Replaced	CB11 (5A) Temp CONTR AC (35A4) (Same as Item 196)	Same as Item 200	CB11 (5A) Temp CONTR AC (35A4) (Same as Item 196)	CB11 (5A) Temp CONTR AC (35A4) (Same as Item 196)	CBlO (5A) Elec Cooling (36A4)	KII - Electronic Cooling (Right Glove Relay Box 772All) Chlo (5A) Elec Cooling (36A4) (Same as Item 204)	CB14 (3A) ANT LOCK EXCIT (36A4) P/O K30 MLS Safety P (Right Glove Relay Box TT2A1)
ID S. TE PORE	1	P.C. Location							
T 11 2-14 SQL	9	Load Power Dissipation							
A	٠	Duty					100\$		
	,	Associated Loads	Ground Cooling Di- verter Valve Actua- tor (42112) (Re- tract)	Ground Cooling Di- verter Valve Actua- tor (42L12) (Extend)	Ground Cooling Di- verter Door Actua- tor (42112) (Re- tract)	Ground Cooling Di- verter Door Actum- tor (42112) (Extend)	Cooling Effect Controller (44A1)	Equipment Hot Air Modulation Valve (44A5) Solenoid	Low Flow Solemoid Valve (2745) P/O Cabin Air-Cond Subsystem
		Peting V & I	V = 115VAC	v - 115vac	v - 115vac	V = 115VAC	v - 28vuc I - 5A		1 - 35 1 - 35
	N.	Type of Power Controller	AC - 1 Pole	AC - 1 Pole	AC - 1 Pole	AC - 1 Pole	DC - 1 Pole	DC - 1 Pole V - 26VDC	IC - 1 Fole
	-	Table Ite.	8	201	26	203	đ.	502	8

	-					
PTOUR 32 SHEET 3	21	Associated Boolean Equations	210	я	212	213
200	п	Reference Drewings	INSFD FIG. 32 Zone B, 11B, 11C, 144	INSPD FIG. 32 Zone 144, 104 94, 1B INSPD FIG. 40 Zone 54	INSEP Pig. 32 Zone 64, 38 2, 1	INSED FIG. 32 ZONE 6C, 4C 3A 2,
	01	Identifier Code	HPIZJO	нгел	HQL212	HQL213
	6	Operational	05962	05483	100006	10060
TABLE II 7-14 SOLID STATE POWER CONTROLLERS AND DRIVERS		Conventional Devices Being Replaced	GB42 (5A) Cabin Press (36A2) PJO KIZ Low Mach Pressure No. 1 PJO KIZ Low Mach Pressure No. 2 PJO KIZ Low Mach Pressure No. 2 PJO KIZ Low Mach Pressure No. 2 GROWN (ARL Safety C TT3A1) GROWN (SA) ENS Temp CONFR (3A) ENS Temp	P/O K3 - Miscellancous Start a Relay (R. Glove Relay Box 772Al) CBB9 - Air Source CONTR (36A3) (Same as Item 196) P/O KZ MLI Safety F (R. Glove Relay Box 772Al)	P/O KIG Misc Start B Relay P/O K9 R. Eng. Start B P/O KIO MIG Safety G (R. Glove Relay Box 772A1) CER3 (3A) Eng. Oll Cool (36A2)	P/O K7 L. Eng. Start B (L. Glove Relay Box 773A1) P/O K16 Misc Start B (R. Glove Relay Box 772A1)
ID STATE PONE	1	P.C. Location				
NE 11 1-14 SQ	9	Load Power Dissipation				
A	5	Duty Cycle				
	,	Associated Loads	Bleed Air Flow Moninating Fres- aure Regulating and Shitoff Valve (4:LIO) Shitoff Valve Reset (SWIK)	Shutoff Valve Enable (¿SVIC.) Bleed Iressure Heghlating and Shutoff Valve (421.0)	Right Bleed Air Smitoff Valve (HZLLI)	Left Bleed Air Shutoff Valve (UZLI)
	3	Rating V & I	v = 28VDC	V = 28VDC	v =28VDC	V = 28VDC
	8	Type of Power Controller	IX - 1 Pole	DC - 1 Pole	DC - 1 Pole	DC - 1 Pole
	-	Table Item #	210	m.	212	23

PIOUNE 32 SHEET 4	21	Associated Boolean Equations	માટ	215	216	217	518
Ĕ	п	Reference Drawings	IMSPD F1g. 35 Zone 5, 3, 2B	1WSFD F1g. 32 Zone 11C, 9A, 1B	148FD F1g. 32 Zone 11C, 34, 1B Zone 25	IMSPD Fig. 32 Zone lA MAVAIR 01- F-14AAA-2- 2-6 Section 00500 Page 11/12	INSPD FIG. 32 20NE 154, 104 94, 18, 238 210, 202, 30 29, 26, 25
	or	Identifier Code	_ग रराभ	HML215	9171NH	राटाम्स	HNI218
	6	Operational	12011	90090	07920	onto	04.059
TABLE II F-14 SOLID STATE POWER CONTROLLERS AND DRIVERS	8	Conventional Devices Being Replaced	P/O K3 Misc Start A P/O K2 MLG Safety F K78 Bleed Air Shutoff (R. Glove Relay Box 772A1)	CB26 (5A) ECS Temp. CONTR (36A) (Same as Item 196)	CB26 (5A) ECS Temp CONTR (36A2) (Same as Item 196)	CB9/5A) Bleed Air L oil hot (36A2)	P/O KZ6 KETRIG. 1 Relay CEG6(5A) RES Teap Contr (Same as item 196)
ID STATE PONE	1	P.C. Location					
BE II F-14 SO	9	Load Power Dissipation			X		
A	5	Duty Cycle					
	-	Associated Loads	Dual Pressure Regulator and Shutoff Valve (4218)	Aircraft Air Temper- ature Electronic Control (42A8)	a) Aircraft Air Temperature Electronic Con- trol (42A6) b) Air Condition Confrol Penel (42A1) Power Supply	Pilote Caution Advisory indicator "L Oil Hot" Light	a) Cabin Hot Air Hotalating Valve (4213) b) Cabin Air Flow Control Servo Valve (4286) a) Position Switch b) TORGUE Motor PMR (2000) F/O Turbine Dis- charge Hot Air Valve (42L4)
	6	Reting V & I	V = 28VDC	V = 28VDC	v = 28VDC	v = 28VDC	v = 28VDC
	~	Type of Rower Controller	DC - 1 Pole	DC - 1 Pole	DC - 1 Pole (Could Be Enable Driver)	Low PWR)	DC - 1 Pole V - 28VDC
	-	Table Ites	224	215	216	217	218

	_			
TONE THE PARTY	व	Associated Boolean Equations	612	02 17 252 252
	п	Reference Drevings	IMSPD F18. 32 Zone 13, 11C, 11B	INSPD F14. 32 Zone 188, 178 IB INSPD F14. 32 Zone 198, 176 INSPD F14. 32 Zone 88
	or	Identifier Code	MIT219	HPL222 HPL222
	•	Operational	orq33 03 4 k2	01001 04036
THE PARTY OF THE P		Conventional Devices Being Replaced	Contr (36A) ECS Temp Contr (36A2) (Same as Item 196) P/O KIG - Low Mach Cooling No. 1 P/O KIG - Low Mach Cooling No. 2 P/O Kit - MIG Safety L (L. Glove Relay Box 773A1)	GG42 (5A) Cabin Press (5A3) (Same as Item 220) Same as Item 220 GG32 GH0 Test/Aach LWR Bit (35A4) KUS HG Safety A RG3A (772A) S1 - Door Open S4 - Test (79CAL) P/0 S2
-	1	P.C. Location		
10 11 11 11	9	Load Power Dissipation		
•	•	Duty Cycle		
	4	Associated Loads	b) Tongue Motor PAR (26VDC) P(0 SALT MOTOR	Valve (421b.) Cabin Pressure Safety Valve (4211.) Solemoid NFO Camilon Advisory Indicator (6,921.) "Cabin Press" Light Bleed Air Lesk Detector Control Unit (70A8.)
	•	Pating V & I	V = 28VDC	v - 28vDc v - 28vDc v - 28vDc
	~	Type of Power Controller	DC - 1 Pole	DC - 1 Pole v - 26VDC Lamp Driver v - 26VDC (Low F4R) Relay Driver v - 26VDC
	7	Table Ites	218 (Continued)	250 251 250

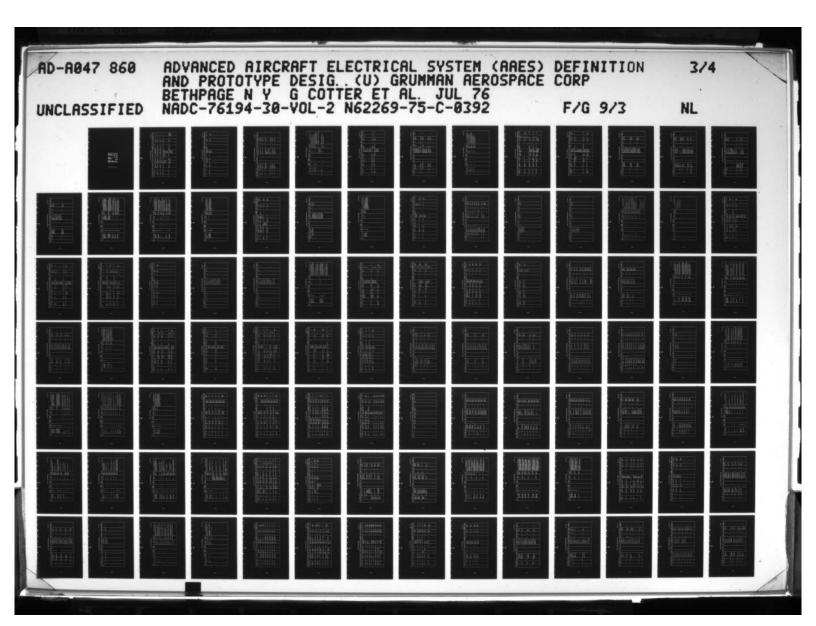
	_		
TOUR NO SHEET O	व	Associated Boolean Equations	£23
	п	Reference Drewings	32 Zone 7,8
	or	Identifier Code	HML223
	6	Operational Address	болю
TABLE 11 F. 14 SOLID STATE PARK CONTROLLERS AND DRIVERS	•	Conventional Devices Being Replaced	C89 (5A Bleed Air L. Oil Hot (36Al) (Same as Item 217)
IN STATE PORE	7	P.C. Location	
DE 11 F-14 BG	9	Load Power Dissipation	
A	5	Duty	
	4	Associated Loads	a) "Bleed Duct" Lamp P/O Pilot Caution Advisory Indicator (c9Al) b) "G" Lamp P/O System Pest and System Pest and System Pest pand Farel (790Al)
		Reting V & I	v = 28vDC
	CI.	Type of Fower Controller	(Low PMR)
	-	Table Item	523

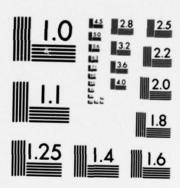
1															
Pale	MONR 22 SHEET 1	8	Equation Description & Motes	1159AC &C to the Bleed Air Leak Detector Control Unit (70A8) Power Supply = 1159AC &C Ess. No. 2 Bus Energized	115VAC #C to the Elapsed Time Indicator = Right or Left Main AC Power on Line and Rema-Air Source Not Selected or Air Source-Off-Not Selected	1159AC &C to the Aircraft Air Temperature Electronic Control = 1159AC &C No. 2 Bus Energized			Ground Cooling Diverter Valve Actuator 1159AC &C- Retract = GND Cooling Switch in OBC/Cabin Position	Ground Cooling Dywerter Value Actuator 1159AC &C- Extend = GND Cooling Switch in AMC-9/Aim-54 Position	Ground Cooling Diverter Door Actuator 115VAC 96- Retract = GND Cooling Switch in OBC/Cabin Position	Ground Cooling Diverter Door Actuator 1197AC &C- Extend = GND Cooling Switch in AMG-9/Aim-54 Position	Cooling Effect Controller 28VDC = 28VDC Left Main Bus Energized	Equipment Hot Air Modulating Valve Solenoid Energized (28VDC) = Altitude > 30000 ± 2000 Ft.	
Solid State Controller List Cross List L	2	7	Reference Drawings	IMSPD F1g. 32	IWSFD F16. 32 Zone 10A, 10B, 9A, 9C, 1A	IWSFD F1g. 32 Zone 1A, 21A	IMSPD F1g. 32 Zone IA, IB, 31 32	INSFD Fig. 32 Zone 1A, 1B, 31 32	LWSFD F1g. 32 Zone 38C, 37B 1A	IMSFD F1g. 32 Zone 38C, 37B 1A	IMSPD F1g. 32 Zone 46C, 43A 1A	INSPD F18. 32 Zone 46C, 43A 1A	IWSFD F1g. 32 Zone 34A, 1C	IMSFD F1g. 32 Zone 1C, 33A, 33C	
Solid State Controller List Cross List L	SOSTEL BOOLEAN EQUATIO	9	Special Considerations	ĕ,			Ess. No. 2 Bus		Ess. No. 2 Bus			Ess. No. 2 Bus	Left Main Bus	Left Main Bus	
12 12 13 13 14 15 15 15 15 15 15 15	TABLE III F-14	•	Bus/Load Management Priority	5	N	8	æ	a	CV.	cu	8	8	cv.	α	
Boolean Equation HWL195		4	Solid State Controller List Cross Reference	195	8.	197	98.1	199	500	201	202	203	204	505	
		е	Transducer List Cross Reference	N/A	003 004 124 137	N/A	124 125 137	124 125 136 137	121	128	127	128	N/A	621	
196 199 199 199 200 200 200 200 200 200 200 200 200 2		~	Boolean Equation	HNL195	DTL196 = XASOO3 + XASOO4 • FNS124 + HNS137	HML197	HQL198 = HQS125 • HNS124 + HNS137	HGL199 = FNS124 • FNS137 + HGS126 • (HNS124 + HNS137)	HNL200 = HNS127	HNL201 - HNS128	HNL202 = HNS127	HNL203 = HNS128	HNL204	HNL205 = HC8129	
		7	Table Item #	195	· 8.	197	86.1	199	500	201	202	203	204	205	

		2000						
FIGURE 35 SHEET 2	8	Equation Description & Notes	Low-Flow Solemold Walve Energized (28VDC) = Left and Right MG Weight-On-Wheels and GMD CLG Switch on GBC/Cabin or AMC-9/Aim-54	Bleed Air Flow Modulating Pressure Regulating and Shutoff Valve - Shutoff Valve Solanoid Reset (26VC) = -0,4 Menh Sigmal Not (Low Menh Pressure Not) and Left or Right Wild Weight on Wheels Not	Bleed Air Flow Modulating Pressure Regulating and Shahoff Valve - Shatoff Valve Solated Emable (28VC) - Air Source-Ram-Selected and Left Engine (28VC) - Air Source-Ram-Selected and Left Engine Crank Not Selected or L. Engine auto restart switch open or L. Engine cutoff switch-open and right engine crank not selected or R. engine auto restart switch open or R. Engine cutoff switch-open and L. Engine Mus. Manual R. Engine Crank and L. Engine Mus. Not Sestart Switch-Closed Engine-Crank and L. Engine Mus Restart Switch-Closed Crank and R. Engine Cutoff Switch-Closed or Hight Engine Crank and R. Engine Catoff Switch-Closed and R. Engine Cutoff Switch-Closed and R. Engine Cutoff Switch-Closed	Orertesperature Suitch 550°F Closed or Overtesperature Suitch 475°F Closed	Right Bleed Shatoff Valve Energized - Closed = Right Engine Catoff Switch Closed Of National Annual Hight Engine Catoff Switch Closed Of Auto Restart Switch Closed on Catoff Switch-Closed and Hight Engine-Crank Not or Auto Restart Switch Closed and Hight Engine-Crank Not or Auto Restart Switch-Closed Or Catoff Switch-Closed	Left and Hight Min Weight on Wheels and R. Throttle Start Cross BL4(40° and R. Throttle Start Cross BL4(40° and R. Throttle Start Cross BL4(40° and Left Engine-Crank and Auto Restart Statch-Closed or Right Engine-Crank and Auto Restart Statch-Closed and Outoff Suttch-Closed
2	7	Reference Drawings	IWSFD F1g. 32 Zone 1C, 37B, 38B, 39A	IMSFD Fig. 32 Zone 1B, 11B, 11C, 14A	INSPD Fig. 32 Zone 144, 10A Zone 146, 10A INSPD Fig. 40 Zone 5A		Juspb Fig. 32 Zone 6A, 3, 2	
TABLE III F-14 SOSTEL BOGLEAN EQUATIONS	9	Special Considerations	L. Main bus	Ess. No. 2 Bus	Ess. No. 2 Bus		Ess. No. 2 Bus	
TABLE III F-14	•	Bus/Load Management Priority	e.	N	N.		a	
	2	Solid State Controller List Cross Reference	506	210	211		217	
	6	Transducer List Cross Reference	002 102 127 128	000 102 130	000 127 133 133 134 133 136 136 146 146 146 146 146 146 146 146 146 14		20 0 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	888333 333
	~	Boolean Equation	HML206 = GDS002 • GDS102 • (HMS127 • HMS128)	HFL210 - FIS130 • GDS102	HPL211 = HN8124 • (KN82137 • (KN8		HALZIZ = KKS136 (HRS137 = KRS131) = FKKS131 + KKS133 + KKS133 + KKS133 + KKS135 - KKS136 + KK	GISOOC GISTOC (KAS139) FI KAS140 (KAS139) FI KAS131 (KAS131) FI KAS141 (KAS145) KAS141 (KAS142)
	-	Table Item #	506	210	п		212	

_										
60	Rquetion Description & Motes	Left and Right Engine BL Air Valve Switch-Cutoff and Left and Right MLG Weight On Wheels	Left Bleed Air Shutoff Valve Energized (Closed) = Left Engine-Crank and Outoff Switch-Closed or	Air Source-R. Eng. or Off and [Left Engine-Grank Not or Auto Ensetart Suitch-Open or Outoff Suitch-Open and Eight Engine-Crank Not or Auto Restart Switch-Open or Outoff Switch-Open)	or left and Hight MIG Weight on Wheels and Left and Hight Throttle Start Gross BL Switch's -kloo and [Left Engine-Crank and Auto Resears Switch Glosed and Outoff Switch Glosed or HightEngine-Grank and Auto Restart Switch Glosed and Outoff Switch Glosed and Outoff Switch Glosed	OF Left and Right Engine BL Air Valve Switch-Cutoff and Left and Right Wid Weight on Wheels	Dual Pressure Regulator Shutoff Valve FMR (Closed) and Mir Source - Off and [Left Engine-Crank Not or Auto Restart Switch-Open and Right Engine-Crank Not or Auto Restart Switch-Open and Right Outoff Switch-Open or Outoff Switch-Open Or	Or (Left or Right MLD Weight on Wheels Not) and [Left Engine-Crank and Auto Restart Switch-Closed and Outoff Switch-Closed or Right Engine-Crank and Auto Restart Switch-Closed and Outoff Switch-Closed]	Bleed Duct Overpressure Switch-High* 289DC Control PMR to the Aircraft Air Temperature Electronic Control = Temp. Switch-Auto	
1	Reference Drawings		IWSFD F1g. 32 Zone 6C, 3, 2				IWSFD Fig. 32 Zone 5, 3		INSPD F16. 32 Zone 11C, 9A, 18	
9	Special Considerations		Ess. No. 2 Bus				a) Ess. No. 2 Bus b) Requires Latch- Up, Once Bleed Duct Over Pres- sure Switch is	in the High Position the Dual Presaure Regulator Shut- off Valve Re- mains Closed Hintil Power is	Removed Ess. No. 2 Bus	
•	Bus/Losd Management Priority		(V				æ		Q	
4	Solid State Controller List Cross Reference		213				214		215	
	Transducer List Cross Reference		000 1302 131	25225 2525 2525 2525 2525 2525 2525 25	139 140 141 141		002 108 138 138	1338 1338 144 1338 1338 1338 1338 1338 1	245	
~	Boolean Equation		HQ1213 • KKB135	(MIS143 + MIS137) • (KIS131 + KIS133 + KIS135 + KIS132 + KIS136) • (KIS136)	• GDSOCZ • GDSICZ • KKAS139 • KKAS130 • KKAS140 • KKS133 • KKS133 • KKS135 • KKS135 • KKS135	+ KAS141 • KAS142 • GDS002 • GDS102	HOLZ14 - HNS137 - (KZS131 + KCS133 + KZS135 - KZS135 + KCS136 KC	(008002 + 018102) • (KKS131 + KKS133 + KKS135 + KKS132 • KKS132 • KKS134 • KKS136]	HQS144• HDL215 • HDR3145	
-	Table Item #	212 (Continued)	213				214		215	
	3 4 5 6 7	2 3 th 5 6 7 Transducer Controller Bas/Load Special Reference Boolean Equation Reference Reference Priority Considerations Drawings	2 3 th 5 6 7 Solid State Controller Controller Management Special Braynos Boolean Equation Reference Reference Priority Considerations Drawings List Cross Reference Priority Considerations Drawings List Cross Reference Priority Considerations Drawings	Solid State Solid State Controller Controller Controller Controller Controller Controller Controller Considerations Enternoe Priority Considerations Drawings List KN213 ** Considerations Consid	Solid State Solid State	Solid State Solid State	Parameter Para	Parameter Para	Franklicer Franklicer Franklicer Controller East Money Eas	Parish P

		Squation Description & Notes	28VLC Control PAR to the Aircraft Air Temperature Electronic Control and Air Condition Control Panel Power Supply = Temp Switch - Man	28VDC to the Turbine Discharge Hot Air Valve a) Torque Motor and b) Position Switch and the Suit Hot Air Modulating Valve	a) Torque Motor and b) Position Switch and the Cabin Hot Air Modulating Valve and the Cabin Air Flow Control Servo Valve	28VDC to the a) Primary Heat Exchanger Pan Modulating and Shutoff Valve - Shatoff Valve Solenoid (Close) b) Secondary Heat Exchanger Turbofan Shutoff Valve (Close) = <0.25 Mach Signal or Left and Hight MLG Weight on Wheels	Cabin Pressure Safety Walve - Energized (20VDC) (Dump) = Air Condition Cabin Press Switch-Dump	"Cabin Press" Caution Light On = Cabin-Low Pressure	Pilot's Caution Advisory Indicator Panel "L Oll Hot" Illuminated = Left Engine Oll Temperature Switch Closed (Hot, ≫500F)	Bleed Air Leak Detector Control Unit K2 Relay Energized - Door-Open <u>and</u> Test Button Depressed and Bleed Air Selected	"Go" and "bleed Duct" Lamp illuminated = Caution Lamp Drive
	7	Reference Drawings	IMSFD Fig. 32 2ore 11C, 9A, 1H Zore 25	IMSFD F1g. 32 Zone 15A, 10A 9B, 1B, 23B, 21C, 20C, 30, 29, 26, 25		IMSED F16. 32 Zone 13, 11C, 116	IWSFD Fig. 32 Zone 18B, 17B, 1B	INSPD F18. 32 Zone 19B, 17C 1B	IMSPD Fig. 32 Zon. 1A MAVAIR 01-F14- AAA-2-2-6 Section 00600 Fage 11/12	IMSFD FIG. 32 Zone 8, 9	Zone 8, 9.
-	9	Special Considerations	Ess. No. 2 Bus	Ess. No. 2 Bus		Ess. No. 2 Bus	Ess. No. 2 Bus	Ess. No. 2 Bus	Ess. No. 2 Bus	L. Main Bus	
	٠	Bus/Load Management Priority	OJ.	O.		N	ev.	N	a	e	£
	-	Solid State Controller List Cross Reference	215	218		219	220	221	21.7	222	223
	9	Transducer List Cross Reference	ऽभर	¥		002 102 148	149	150	151	054 056 153	152
	8	Boolean Equation	MIL216 - 1783145	HML218		+ GDSOO2 • GDS102	HPL220 = HP3149	HPL221 - HP8150	D4 (2)7 * D6 (5)1	HNL222 = WASO54 • MJSO56 • HQS153	HNL223 = HNS152
	-	Table Item #	216	218		219	220	221	21.7	222	223





MICROCOPY RESOLUTION TEST CHART NATIONAL BUREAU OF STANDARDS-1963-A

PLOUIS 33 SHORT 1	13 Conditioning Technique	Solid state	Solid state	Solid state	Bolid state	Solid state Meening . Progime logic holding to holding to sempling
FIGUR 33	12 Associated Boolean Equation	991	56 6	07.1	EE	66
	11 Reference Drawings	IVSPD PAG. 33 Zone UB	INSPD FIG. 33 Zone GA	INSTO PAG. 33 Zone GA	INSPD FIG. 33 Zone SA	N N
	10 Operational Address	03F12	QeP37	96.420	on se	64,400
	9 Conventional Switches Being Replaced or Deleted	Ogros/Wahld HT - OM/OFF Butteh	Morm/Hin Switch Si	Mehld Defog - Mex/ Norm/Min Switch Sl	Windehleld overheet eendor (4051)	Windehield - Main Supal/air/off Switch (Sl)
TRANSDUCERS	Associated Loads	Windshield power con- trol (WOM1)	High Defog Solemoid (4014)	for solen- old (kOL3)	bot relay (forestd bot relay (forestd switching seeebly 78LE) b) Filot caution advisory indicator (69A1)	a) bain re- pallent tient (c) b) Windshield andl-lice pressure regulator and shutoff valve
TABLE I 7-14 SOSTEL SIGNAL TRANSDUCERS	7 Present Signel Characteristics	ON - Switched 115 VAC AC	Max = Switched 28 VDC Min = Open	Norm - Switched 28 VDC Min - Open		ON - mytched 28 vpc
TABLE 1	frensducer Type	Toggle Switch SHY	Toggle Switch DFT	Toggle Switch DPT	Sensor Sensor	Manntary/ Toggle Toggle (apt.)
	Point of Origin	NPO's left knee panel FS300	Filot's right side con- sole FW225	Filot's Right Side Con- sole FW225	Plot's webld leading edge enti-ice nozzle FSEOS	Hlot's Right aide con- sole FS25
	Signal Source Box Identification	System test and system power panel (790A1)	Mindshield Defog Panel (40A3)	Windshield Defog Panel (40A3)	Widehield Over- heat Sensor (4081)	External environment control penel (1792A1)
	Jdentifier Code	HJSO94	HJS095	HJ3096	HASOYT	мзоув
	Signal Mame/Punction	Gyros/NSHLD Htr - ON	Windshield Defog-Max	Windshield Defog - Norm	Wahld Over- best sensor- hot	of the contract of the contrac
	Pal.	\$	8	*	8	8

SHEET ?	13 Conditioning Technique	Solid etate	Signal Adapter
FLOUR 33 SHOET 2	Mesociated Rodesn Equation	ш	E .
	11 Partage	IMSPD Fig. 33 Zone LA	7.6. 55 7.6. 55 7.6. 55
	10 Operational Address	o s la o	Saxio
	9 Conventional Switches Being Replaced or Deleted	Windehleld - Kein Nepel/eir/off switch (SI)	
TRANSDUCERS	8 Associated Loads	Windshield anti-ice pressure regulator and shutoff valve	Pilota . Wahld Mot . Caution Mot . Caution judi. (69A1)
TABLE I P-14 SOSTEL SIGNAL TRANSDUCERS	7 Present Signal Characteristics	ON = switched 28 VDC	28 VPC of open
TABLE 1	6 Trensducer Type	Memtary/ Toggle Switch (DPUT)	Signal
	Soint of Origin	Filot's Right Side Con- sole FW25	PR210
	Manal Source Box Identification	External environment control panel (TSAL)	Control (told)
	3 Identifier Code	N3099	LFS100
	2 Signal Name/Punction	A1r - ON	Output - Off
	Table Item	\$	801

PIOUR 33 SHEET 1	2	Associated Boolean Equations	991	991		£	24.1	173	**
ř	1	Reference Drewings	1WSPD P16. 33 Zone 3B, 4B, 5C	INSPD PIG. 33 Zone SB, GA 3A	IWSPD Prg. 33 Zone SB, GA 3A	INERD PAE. 33 ZONE 7, 36, lat, 34	Zore 78, 78	INSPD FIG. 33 Zone GB, SB 9C	Kor M, S.
	97	Identifier Code	W1168	69TIAN	NU170	14771	NU172	LW173	NITTA
	6	Operational	04613	Open	oles o	8	okent	V OOTTO	ONEDS
TABLE II 7-14 SOLID STATE POICE CONTROLLERS AND DRIVERS		Conventional Devices Being Replaced	CB1(7.5A) Wehld Defog per (35A1)	CBio(5A) Wahld Defog Contr (36Ak)	CBAO(5A) Wahld Defog Contr (36AA)	Agessby K3 Windshield ther Ralay (781A1)	Ann Repellent Timer (AoM)	K3 Relay-Porward Switching Assembly (781A1) See Item 171	Cho(ya) wahid befog Coutr (Schk) Same as Item 169
ID STATE PORE	-	P.C. Location							
ABLE II P-14 80	•	Load Poser Dissipation							
4	•	Duty							
		Associated Loads	Windshield Power Control (40AI)	High Defog Solen- oid (40LA)	Medium Defog Solen- oid (4013)	Windshield suit-ice Fresure Regulator and Shutoff Valve (401.)	Nain Mepellent Shutoff Valve (4012)	Webld Not - Pilot Caution Advisory Indicator Panel (69A1)	Windshield Power Control (LOAI)
	•	Pating V & I	V-115 VAC ph 1-7.5A	V - 28 VDC	V = 28 VDC	V - 28 VDC	V - 28 VDC	v - 28 vDC	v = 28 vpc
	æ	Type of Rower Controller	AC-1 Pole	DC-1 Pole	DC-1 Pole	DC-1 Pole	DC-1 Pole	Lamp Driver	pc-1 Pole
	-	Table Ites (166	169	170	E ,	2/1	173	44.1

-	_									
YTOUR 33 SHEET 1	•	Mquation Description & Notes	115 VAC #4 to the windshield power control . Gyros/Mahld Hester Switch - ON	High Defog Solenoid energized (28 VDC) = Windshield Defog Fanel switch - MAX	Medium Defog Solenoid energized (28 VDC) - Windshield Defog Panel switch - MAX $\overline{\rm QR}$ Normal	Windshield suit-ice pressure regulator and shutoff valve energized (vindshield suit-ice air - co) = Hindshield Overhest Sensor - Open AND external environment control panel switch in rain repel (Missir position)	Main repallent Shutoff walve is energised (rain repal- lent aprey on for 0.7 seconds) = rain repal momentary, switch actuated	Wahld hot - Caution Advisory Lite - ON - Windshield power control elem light output - ON OR windshield overhest sensor - Closed	28 VDC to the windshield power control = 28 VDC right main bus energized	
2		Brevinge	INSPD PME. 33 Zone 3B, 4B, 9C	INSPD FIR. 33 Zone 5B, 6A, 3A	TWSPD PIG. 33 Zone 8B, 6A, 3A	INSPD P18. 33 Zone 78, 58 LA, 3A	INSPD FIg. 33 Zone	INSPD Prg. 33 Zone 6B, 5B 5C, 5A	INSED FIG. 33 Zone 3A, 92	
TABLE III P-14 SOSTEL BOLLEAN BOUATIONS	9	Special Considerations	R. Mein Bus	R. Meto Bus	R. Mein Bus	Ess. No. 2 has	b) Requires 0.7 Sec Timer (on for 0.7 esc after momen- tery NSO96 is actuated)	R. Win Be	R. Wein Bus	
TABLE 111 F-14 S	•	Man Cond Man Consta	,	•	•	N	a	e		
		Solid State Controller List Cross Reference	166	169	170	ил	172	173	171	
	•	fransducer List Gross Peference	*	\$	88	566	96	100	ž	
	N	Boolean Equation	HUL168 - NJSO94	MI169 - NJS095	NJL170 - NJS096 + NJS095	(нузоу + нузоуй •	N1172 - N3098	LTL173 = LTS100 + HASO97	471.174	
		i	168	169	170	ил	172	173	174	

The course 188 100 Light course 188 10	- 1				
Signat	SHEET 1	13 Conditioning Technique	SOLID STATE	SOLID STATE	SOLID STATE
Signal Good Barrier Signal Searce Point of Treasford Signal Searce Point	PLOUR 34	Associated Boolean Equation	717 777 178 178	52.5	E.
Signal Code		11 Reference Drawings	INSPORTG.	INSPD FIG. 34 ZONE 2A	DASPD FIG.
Signal destifice and bource but of Traced control to Code box Identification of the Trace of Trace of Code box Identification of the Trace of Trace of Code of		10 Operational Address		Миро	
Signal Source Signal Good Signal Source Point of Transdocr Present Signal Associated Code Mass/Punction Code Punction Code Mass/Punction Code Punction Code Punction Code Punction Code Punction Code Punct		9 Conventional Switches Being Replaced or Deleted	LIQ COOLING - ANG-9/AIN-54 SMITCH	LIQ COOLING ANG-9/AIM-54 SMITCH	SALTCH (6183)
Signal Code Signal Source Point of Tr Gode Mass/Function Code Box Identification Origin Origin Liquid Coolin; HWS 101 Liquid COOLIN; HWS 103 Liquid COOLIN; HWS 103 CONTROL PAREL GIANIZET SIDE (4-1) CONSOLE PAREL GIANIZET SIDE LINI SINTERIOCK SHITCH-CLOSED SAITCH (5-183) FS 395	TRANSDUCERS	8 Associated Loads	a) (WES/HISSIE CONFROILER (ELAZ) b)		K35 ADH-54 FRAU (RIGHT GLOVE BEAN BOX K51 ADH-54A BEANT RORE BEANT BOX TTMA.)
Signal Code Signal Source Point of Tr Gode Mass/Function Code Box Identification Origin Origin Liquid Coolin; HWS 101 Liquid COOLIN; HWS 103 Liquid COOLIN; HWS 103 CONTROL PAREL GIANIZET SIDE (4-1) CONSOLE PAREL GIANIZET SIDE LINI SINTERIOCK SHITCH-CLOSED SAITCH (5-183) FS 395	-14 SOSTEL SIGNAL	7 Present Signal Characteriatics	VOLFAGES	SWITCHED	эмтонер с сложер- сбую огря - огря
Signal Code Box Identification Code Box Identification Liquid Cooling Interest Code Box Identification Interest Cooling Inter	TABLE I	6 Transducer Type	(4. Putco)	POGGLE SMITCH (4PDTCO)	
Signal Identifier Code Liq COOLING HNS 101 ANG-9 - ON FALISING HNS 103 ANG-9 - ON		Point of Origin	NPO'S LEFT SIDE CORSOLE FS 300	NFO'S LEFT SIDE CONSOLE FS 300	FS 395
Signal Name/Punction Liq COOLING AMS-54 - ON ANG-9- ON RAIGING INTERIORS SMITCH-CLOSED		signal Source Box Identification	LIQUID COOLING CONTROL. PANEL (GLA1)	LIQUID COOLING CONTROL PANEL (61A1)	SAITCH (6183)
		3 Identifier Code	HMS 101		AGS 104
		2 Signel Name/Function	LIQ COOLING AW-5/ AB-54 - ON	LIQ COOLING AMG-9 - ON	PATRING INTERIOCK SMITCH-CLOSED
		Table Item			

a	Associated Boolean Equations	St.	176	Et .		64
п	Beference Drewings	INSFD FIG. 34 ZONE 2A, 1B 2B, 4B	INSPO FIG. 34 ZONE 18, 24 TB	INSTO FIG. 34. ZONE 1G, 2C, 3C, 2A, 3C, 2A	INSPD FIG. 34 ZONE 1A, 2A 58	MSPD FIG. 34.
97	Identifier Code	C1 1001	100. 176 100. 176		HOIL 176	16
6	Operational	05944 05445 05446	7.5%	07070 070333 07034	0548	6456
	Conventional Devices Being Replaced	CREG (15A) AM/AND-9 RUP PH A (35A.) RUP PH A (35A.) CREG (15A) AM/ANC-9 CREG (15A) AM/ANC-9 CREG (15A) AM/ANC-9 RUP PH G (35A.) K34 AND-9 RUP RIGHT GLOVE RELAY BOX (77ZAA.) CREG (5A) LIQUID COULING CONTR DC (36A.)	CBII (5A) LIQUID COOLING CONTH AC (35A1)	CB40 (15A) STA 3/6 AIN 7/ CB36 (15A) STA 3/6 CB36 (15A) STA 3/6 (15A5) STA 3/6 (15A5) STA 3/6 CB35 (15A) STA 3/6 CB35 (15A) STA 3/6 CB35 (15A) STA 3/6 FINE TA (15A5) FINE TH (15A5) FINE TH (15A5) FINE TH (15A5)	CB42 (5A) LIQUID COOLING CONTR DC (36AV) (SAME AS ITEN 175	CBA2 (5A) LIQUID COOLING CONTR DC (56A) (SAME AS 175
7	P.C. Location					
9	Load Power Dissipation					
~	Duty					
	Associated Loads	PUR (6182)	WCS/MISSILE CONTROLLER (61A2)	MISSIE COCIANT PUR ASSEMBLY (6.181)	WCS/MISSILE CONTROLLER (61A2)	CONTROLLER (GLAZ)
3	Rating V & I	115VAC \$ A,B & C I = 15A COCH	115VAC &C I-5A	115VAC 6 A.B & C I- 15A COC	V-28VDC	V-28VIC
~	Type of Rower Controller	AC-3 POLE	AC-1 POLE	AC-3 FOLE	DC-1 POLE	pc-1 POLE
-	Table Item #	175	176	E.	178	179
	1 0 6 8 2 7 8 1 9 1 10 111	2 3 4 5 6 7 8 9 10 11 Type of Pating	Type of Retay P.C. Conventional Davices Code Davidage Code Code	Type of February P.C. Conventional Davices P.C. Code Preference P.C. P.C. Code Preference P.C. P.C. Code Preference P.C. P	Page of Page	Type of

-1	_							
FIGURE 34 SHEET 1	•	Mustion Description & Notes	115 VAC 64, B & C TO THE WISE COOLANT PRAF = LIQ COOLING SMITCH AT (AMG-9/AIM-54 OR AMG-9)	115 VAC _C TO THE WCB/NISSILE CONTROLLER - LIQ COOLING SMITCH AT (AMG-9/AIM-54 OR AMG-9)	115 VAC 64, B & C TO THE MISSILE COOLANT PAGE = LIQ COOLING SAITCH AT ANG-9/AIM-54 AND PAINING INTERLOCK LIMIT SAITCH-CLOSED	28VDC TO THE WCS/MISSILE CONTROLLER - LIQ COOLING SMITCH AMC-9/AIM-54	28VIC TO THE MCS/MISSILE CONTROLLER - LIQ COOLING SMITCH AT AME-9	
2	1	Personal Drawings	INSPD FIG. 34 ZONE 18, 2A, 28, 48	INSPD FIG. 34 ZONE	INSPORTO, 34 ZONE 1C, 2A, 2C, 3C	IMSPD PIG. 34 ZONE 1A, 2A, 5B	TASPO FIG. 34 2008 1A, 2A, 90	
TABLE III P-14 SOSTEL BOOLEAN EQUATIONS	9	Special	R. MAIN BUS	R. MAIN BUS	R. MAIN BUS	R. MAIN BUS	R. MAIN BUS	
TABLE III P-14 S	•	Bus/Lond Management Priority	3	•	e	3	•	
		Solid State Controller List Cross Reference	175	176	ш	176	179	
		Transducer List Cross Reference	60T	tot for	101	101	103	
	~	Boolean Equation	HNL 175 = HNS 101 + HNS 103	HML 176 = HMS 101 + HMS 103	AGS 104	HML 178 = HMS 101	HOL 179 = HOS 103	
	- -	Table Ites #	175	176	π1	176	179	

SHEET 1	13 Conditioning Technique	SOLID STATE	ETTERAL SIGNI ALAPTER	SOLID STATE	SOLID STATE	SOLID STATE
PLOUR 35 SHEET 1	Associated Bolean Equation	237, 281 242, 284 254, 284 263 263 277 277 279	38.83.23.85.52 E	% %	2225	26 26
	11 Reference Drawings	INSPD FIG. 35 ZONE 2A	10. 10. 10. 10. 10. 10. 10. 10. 10. 10.	INSPD FIG. 35 ZONE 2A	INSPD FIG. 35 ZONE SB	Naro FIG. 35 2008 199, 72, 58, 48 39, 14
	10 Operational Address	12490	ostee	1440	oyns	QPA1
	9 Conventional Switches Baing Naplaced or Deleted	COMBINED STS. PRESSURE SAITCH	*	PLESSURE SALTCH	THANSPER FING ON/OFF	AUX HTD CONT. CA/OPP SATTOR
TRANSDUCERS	8 Associated Loads	KOS - MOSE KREEL RELAY L. GLOVE RELAY BOX (773A1)		K19 - HYDR IBOLATION IO SEC TIME DEPAY RELAY (LEPT SLOVE RELAY BOX 773A1)	KB4-TRANSPER PLACE SHUTOPP MELAY (L. GLOVE RELAY BOX 773A1)	COGRETION THANSTER NAME P/O COGRETION STATEM PRESSER WORNIE (47/2)
TABLE I P. 14 SOSTEL SIGNAL TRANSDUCERS	Present Signal Characteristics	> 450 PSI = SATTCHED 28VDC C 450 PSI = SALTCHED 28VDC	W/W	A-50 PSI-SMITCHERGL9 - HTDR 150/ATTOR 150/ATTOR 150/ATTOR 162 PSI - 162 PSI SI 162 PSI SI 162 PSI SI 163 PS	ON - SWITCHED 28 VDC OFF - SWITCHED 28 VDC	MONAL - SATTCHELCOGINED ZOTO: TANENTRE HAG ZOTO: TANENTRE PAR ZOTO: TO CHORIED DI TENENTRE PRESENT MOULE (47A2)
TABLE I	6 Transducer Type	Pressure Saltch	FS 410	PRESSURE	SMITCH (SPUT)	(DEUT)
	Solut of Origin	FS 645	FS 410	RIGHT SIDE PRESSURE PS 480 SHITCH	NPO'S LEFT KNEE PAREI FS 300	PILOT'S RIGHT SIDE CORSOLE FS 225
	A Signal Source Box Identification	COMBINED STS. PRESSURE MODULE (47A2)	P/O AC EXTERNAL FOURH CONTACTOR (66A6K3)	P/O FLIGHT SYSTEM PRESSURE MODULE (4/A1)	SYSTEM TEST AND SYSTEM FOWER PANEL (790A.1)	KTORAULIC TRANSPER Fuad Pauel (47A3)
	J Identifier Code	EPS 163	XAS 180	EPS 181	403 182 403 182	द्द ड 183
	2 Signal Mass/Punction	COMBINED STS. PRESSURE - > 450 P.S.I.	EXTENDAL AC POMER - ON LINE	PIESSM-SOPSI	TRANSPER PINE GGS 182	HYD TRANSFER Fund - Noraal
	Table Ite	E9T	180	ця	82	183

13 Conditioning Technique	RESISTOR DIVILOR ALAPTOR	SOLID STATE	SOLID STATE	RESISTOR DIVIDOR AIMPTER
12 Associated Boolean Equation	92.59	% %	£92	88
11 Reference Drawings	IMSPD P1G. 35 ZONE 25B	135 FIG. 35 ZONE 58	INSPD FIG. 35 ZONE 7C	INSPO P1G. 35 ZONE 26C, 28C
10 Operational Address	92490	91460	SP2	62490
9 Conventional Bwitches Being Replaced or Deleted	м/л	ON/OFF SAITCH	LOW/AUTO (LOM) SWITCH	\$
8 Associated Loads	AUX HYD CONT. SMITCH- SOLINOID P/O SYS. TSF AND SYS FUMP PAMEL (790A1	A) BACK UP MODULE GROUND GROUND SOLINOID WALVE B) HIGH SEPED RELAY F/O FI F	FLT CONTROL BACKUP WOULE (63E) ELECTRIC WOTOR HI SPEED AND LON SPEED RELAYS	DEER FLT HI AND LOW FLAGS POWESSINE INDICATOR (37ML)
7 Present Signal Characteristics	HOT (<180°F) = OPEN COOL = CLOSED	ON - SAITCHED ZOVICE OFF - OPEN	TYCHED	CLOSED (>SOPEI) - GEO - OPEN (-350PSI) - OPEN
6 Transducer Type	TEMPERATURE SAITCH		TOGGLE SATTON LE	SMITCH SMITCH
Solat of Origin	<i>PS7</i> 10	MFO'S LEPT KNEE FANE. FS 300	PILOT'S RIGHT SIDE CONSC FS 225	PS 7.10
Magnel Source Box Identification	FLIGHT CONTROL BACKUP MODULE (63B2)	SYS. TEST AND SYS. PUR PAREL ('790A.)	(734A1)	FLT. CONTROL BACKUP HOULIE (6.3EC)
3 Identifier Code	Ç63184	468185	463186	QGS1B7
2 Signal News/Punction	BACKUP MOUNTE TEMP SMITCH - CLOSED (<180°F)	ON HYD CONT	DERG PLT HYD- HI	BACRUP MODULE PRESSUR - (>500 PSI)
Table Ite	184	985	8	187
	2 3 4 5 6 7 7 8 8 Correntional Identifier Signal Source Point of Transducer Present Signal Associated Saftches Dailors Code Box Identification Origin Type Characteristics Loads Replaced or Dailots Addmss Equation	Signal Identifier Signal Source Point of Transducer Present Signal Associated Battohes Baing Address Drawfings Battohes Baing Address Battohes Baing Battohes Baing Battohes Baing Address Battohes Battohes Baing Address Battohes Battohes Baing Battohes Battohes Baing Battohes Battohes Baing Battohes Bat	Sugaral Code Page 1 Start Star	Section Sect

PIGURE 39 SHEET	21	Associated Boolean Equations	392	Se Se	%
214	п	Beforence Drewings	INSED FIG. 35 2008 239, 196 68, 75, 1A, 3A, 58	INSPO PIG. 35 2008 118, 158 68, 74, 14, 48, 39, 28	INSPD FIG. 35 65.08. 24., 20C 65.8. 28. 48. 38, 28. 48.
	o	Identifier Code	29/198	£97189	437187
	6	Operational	03943	07435	41960
TABLE II F-14 SOLID STATE POWER CONTROLLERS AND DRIVERS	80	Conventional Devices Being Replaced	CB19(SA) HTD VALVE CONTR (15A2) (15A2) CB40(715A) BRENG. FUT HTD AUTO (15A1) FV O NTO - HTD TRANSFER HAN FELAY FV ON STORE ISOLATION FV OSS THANSFER HAN SELAY FV OSS THANSFER HAN SELAY FV OSS THANSFER HAN SELAY FV OSS THANSFER TY3.1) FV OS EXTERBAL BOX TY3.1) FV OS EXTERBAL BOX TY3.1) FV OSE EXTERBAL BOX FV OSS. EXTERBAL BOX FV OSS	CEL9(5A) HTD VALVE CONTRE (\$\frac{2}{2}\). CENC(7A) BERE 6 FLT THAN AUTO (\$\frac{2}{2}A.) F/O KÖN-TWANSTER HAND SHUTOFF RELAT SHUTOFF RELAT TO KIS-TRANSTER HEAD 10 SEC THE BELAT HEAD 10 SEC THE BELAT HEAD FOUND THANSTER FUND RELAT CLICTOR BELAT BEAT FUND THANSTER FUND	CBIS(A) HTD VALVE CONT (SAC) P(O AT)-462 SAPET J P(O AT)-462 SAPET C P(O AT)-462 SAPET C P(O AT) AND TAMESTER AND PROPERTY TO HTD TAMESTER TO
ID STATE POLI	1	P.C. Location			
ABLE II P-14 SO	•	Load Power Dissipation			
4	•	Duty			
	3	Associated Loads	COMBINED TRANSFER PRINGS STORY VALVE P/O COMBINED SYSTEM PRESSURE MODULE (47AZ)	FI.T TRANSFER RUMP SIGHT OFF VALVE FOR BLY STSTEM FRESSIME MOUTLE (47A1)	MONAGL ISOLATION SAUTO PER VALVE PLO COMBINED SYSTEM (4.7/2.)
		Rating V & I	V=28VIC	V=2BVDC	V-zBVDC
	~	Type of Power Controller	DC-1 FOLK	IC-1 POLE	DC-1 FOLE
	-	Table Item #	262	563	25
	_				

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a	Associated Boolean Equations	592	. %	£	999	6
п	Reference Drevings	INSPD FIG. 35 208: 208: 248 128: 168: 58 48: 38: 1A;	IMSPD FIG. 35 ZONE IA, 38, 48, 58, 268, 268 258, 278	INSPD FIG. 35 ZONE 25A, 6C, 5B, 7C, IA, 4B, 3B	IMSPD FIG. 35 20ME 25A, 70 4C, 5B, 2B	ZONE 1B, 25A
or	Identifier Code	997180	935.266	Light De La Caracia	entres	691109
6	18.		11430	11611	abit	
	Conventional Devices Being Replaced	CBAO(7.5A) BRENS FLT HYD ANTO (36A2) HYD ANTO (36A2) F. GLOVE BELLY BOX F. GLOVE BELLY BOX F. GLOVE BOX F. O AC EXTENSAL, POMEN CONTACTOR (66A6K3)	SAME AS ITEM 265	CB39(5A) DOESG. FLE HYD CS-06(7.5A) DOESG. FLE HYD ANTO (36A1) PAO ECS-04AA SAFFET D PAO	CB39(SA) BERG, FLT FTD MAN (SAA) CB90(CTSA) BERG, FLT FTD AVTO (SAA) P/O AL EXTENBAL POWER CONTACTOR (66AMAS)	EBA(SOA) MA EBA(SOA) BA EBA(SOA) BB EBA(SOA) BA EBA(SOA) ME FLT HTD BACODP (SSA1) FLT HTD BACODP (SSA1)
1	P.C. Location					
9	Load Power Dissipation					
•	Duty					100\$
	Associated Loads	a) PLIGHT SYSTEM PRESSURE MOUTE (FLYAL) PRESSURE MOUTE (FLYAL) PRESSURE MOUTE (FLYAL) PRESSURE MOUTE (FLYAL) SHUTOF VALVE)	FLIGHT CONTHOL BACKUP MODULE (6382)	FLIGHT CONTROL BACKID MOUNT. ELECTRIC MOTOR (G.SE.) HIGH SPEED MELAY	FLIGHT CONTROL BACKUP MODULE (6382) ELECTRIC MOTOR- LON SPEED RELAY	PLIGHT CONTROL MACKUP MOULE (6.58C) KLECTRIC MOTOR
9	Rating V & I	V=28VIC	V-28VDC			Vallsvac
~	Type of Power Controller	DC-1 FOLE	DC-1 FOLE	RELAY DRIVER	HELAY DHIVEN	IC-3 POLE (COLLD BE 3-SINGLE POLE PC'S)
-	Table Item #	502	98	58	948	98
	1 0 6 7 8 9 10 11	2 3 4 5 6 7 8 8 9 10 11 Type of Rating Associated Loads Controller V & I Associated Loads Controller Controller Controller V & I Associated Loads Controller Cont	Type of Factor Pating Pating Page Page	Type of Factor Pating Pa	Particular Par	Part Part

	_					
PLOURE 35 SHORT 3	a	Associated Boolean Equations		uz.	272	£
PIO	п	Beference Drestage	INSPO FIG. 35 ZONE 85, LC, ZONE 85, LC, INSPO FIG. 4A 734, 736, 736, 736, 736, 24, 25, Zeb	INSP FIG. 35 ZONE 39, 2C, 1C	INSPD FIG. 35 ZONE 3C, 2C, 1C	DASTO PIO, 35 200E NA, 28, LA
	10	Identifier Code	TBL270	מודעו	DHL2772	IND.273
	6	Operational	0)463	03463	Name o	onto
TABLE II P-14 SQLID STATE FORER CONTROLLERS AND DELVERS	60	Conventional Devices Being Replaced	CB19(10A) SOL PUR ØA CB16(10A) SOL PUR ØB (35A5) CB16(10A) SOL PUR ØB (35A5) SOC (75A5) STO (35A1) STO (35A1) CB18((3A) ANT LOCK EXCIT (35A2) CB18((3A) ANT LOCK EXCIT (35A2) STO (35A1) CB18((3A) ANT LOCK EXCIT (35A2) SOC EXT. PUR OUNTACTOR (35A3) P/O AC EXT. PUR OUNTACTOR (35A4) P/O AC EXT. PUR OUNTACTOR (35A4) P/O AC EXT. PUR GANT P/O EXT. SOL. PUR (BLOCKE BEAN BOX P/O EXT. PUR (BLOCKE BEAN B	CB19(SA) COMB HTD FREESS IND (35A2)	CRIB(SA) FLT HYD PHESS IND (35A2)	P/O FILOT CAUTION HAVIOUR INDICATOR (69A1)-HTO PRESS EM-O(7.5A) BORIG. FLT HTD. AUTO
ID STATE FORE	-	P.C. Location				
NE 11 7-14 801	•	Load Fraer Dissipation				
A	^	Duty		1005	1008	
		Associated Loads		A) HYDRAULIC PRESSUR TRANSAUTTER (COMBINED) (37EC) b) P/O HYDRAULIC PRESSURE INDICATOR (37M1)	a)hydraulic phessure transmitter (flight) (3781)	P/O PILOT CAUTION ADVISORE INDICATOR (69AL) - NTD PRESS
	•	Pating V & I	V*115VAC F# IB, C, I= 10A COCI	V=115VAC jk I=5A	V-115VAC ph I-5A	v.z8vuc
	~	Type of Rower Controller	AG-3 POLE	AC-1 POLE	AC-1 FOLE	LAMP DRIVER
	7	Table Item	270	ruz .	272	33

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1982 200 100						
Type of Section Control Properties Section Control Properties Section Control Properties Section Control Properties Section Se	JUNE 35 SHEET *	2	Associated Boolean Equations	1,12		Æ
2 3 4 5 6 7 6 7 6 7	Ĕ	n	Reference Drewings	INSPD FIG. 35 ZONE 1A, 5A	INSPD FIG. 35 20NE 29C, 26C 7A, 6C, 28, 4B, 3B, 1A,	INSPD FIG. 35 ZONE 20C, 26C ZONE 20C, 26C 44B, 3B, 1A,
Type of Top of T		01	Identifier Code	тал		
Figs of Bating Associated Loads Controller V-28VDC HTDANLIC PRESSURE LOAS LISA HELAY DRIVER V-28VDC HTDANLIC PRESSURE LOSS HELAY DRIVER V-28VDC HTDANLIC PRESSURE HTDANLIC PRESSURE HTDANLIC HTDANLIC PRESSURE HTDANLIC HTDANLIC PRESSURE HTDANLIC HTD		6	Operational	90010	Lorto	90010
Figs of Bating Associated Loads Controller V-28VDC HTDANILLC PRESSURE LOAS LISA HELAY DRIVER V-28VDC HTDANILLC PRESSURE HTDANILL PRESSURE HTDANILL PRESSURE HTDANILL PRESSURE HTDANILL PRESSURE HTDANILL PRESSURE HTDANILL (INDICATOR (37M1) PRESSURE HTDANILL (17M1) PRESSURE	R CONTROLLERS AND DRIVERS	8	Conventional Devices Being Replaced	CB20(5A)HYD PRESS IND (36A2)	P/O BER FIT HTDR IND (LEFT GLOVE RELAY BOX (T.T.A.1) P/O HIG SAPETY 'N' RELAY RESPONSED TO THE STATE (ROTH GLOVE RELAY BOX (T.T.A.1) P/O HIG SAPETY 'N' RELAY (SYSTEM TEST AND SYSTEM FOWER PAWEL TSOAL) P/O HIG SAPETY P. RELAY RELA	SAME AS ITSH 275
Figs of Bating Associated Loads Controller V-28VDC HTDANILLC PRESSURE LOAS LISA HELAY DRIVER V-28VDC HTDANILLC PRESSURE HTDANILL PRESSURE HTDANILL PRESSURE HTDANILL PRESSURE HTDANILL PRESSURE HTDANILL PRESSURE HTDANILL (INDICATOR (37M1) PRESSURE HTDANILL (17M1) PRESSURE	ID STATE POWE	1	P.C. Location			
Figs of Bating Associated Loads Controller V-28VDC HTDANILLC PRESSURE LOAS LISA HELAY DRIVER V-28VDC HTDANILLC PRESSURE HTDANILL PRESSURE HTDANILL PRESSURE HTDANILL PRESSURE HTDANILL PRESSURE HTDANILL PRESSURE HTDANILL (LAN) RELAY DRIVER V-28VDC HTDANILLC PRESSURE HTDANILL (LAN) RELAY DRIVER V-28VDC HTDANILLC PRESSURE HTDANILL (LAN) RELAY DRIVER V-28VDC HTDANILLC PRESSURE HTDANILL (LAN) RELAY DRIVER V-28VDC HTDANILL HDLAY (LAN) RELAY (LAN) RELAY (LAN)	ABLE II P-14 SOL	9	Load Power Dissipation			
Type of Bating Controller V & I DC-1 FOLE V-28VDC RELAY DRIVER V-28VDC	a	•	Duty Cycle	100\$		
Type of Bating Controller V & I DC-1 FOLE V-28VDC RELAY DRIVER V-28VDC			Associated Loads	HYDRAULIC PRESSURE INDICATOR (37ML)	HYDANULIC PRESSURE INDICATOR (37M.) BERGEREY FLIGHT HYDRULIC INDICATOR HELAY (LOM.)	MYDANILLO FRESSURE INOCATOR (37M.). BREGISORY IND. FEDANULIC INDICATOR RELAY (HI)
			Peting V. b. I	V=28VDC I=5A		v-28vDC
275 275 275		N	Type of Power Controller	DC-1 FOLE	RELAY DRIVER	RELAY DRIVER
		-	Teble Ite.	274	275	276

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PIGUIR 35 SHEET 1		Rustion Description & Notes	COGDINED THANSPER PURG SHUTOPF VALVE (28VIC) - INTO THANSPER PROPOSOLA AND CHANSPER PURG-ON ON LEPT OR RIGHT MIGHERICHT ON MUEELS WIT OR EXTERNAL AC PHR. ON LINE AND PIT PRESSURE 2100 PSI OR EXTERNAL AC PRICO IL CONTROLLE PRESSURE 2100 PSI AND SHOOL PLINE OR COMBINED STS. PRESS SHOOL PSI AND PIT. STS. PRESS NO PSI)* AND PIT PRESSURE - > 2100 PSI	PLIGHT THANSPER PLAD SHOTOPP VALVE (28UC) = HTD THANSPER HAP-SHOTOPP OF FLT PRESSURE < 2 200 FSI OR (TRYTHALL AC PHR - BIT OR LINE ADD CONGINED STSTEM PRESSURE - < 400 PSI OR FLT STSTEM PRESSURE - < 400 PSI ON (THANSPER PADE - OFF AND LINE ADD RECORD ON (THANSPER PADE - OFF AND LINE OR FLT PRESSURE > 2100 PSI ADD RETENALL AC PHR - OF LINE OR FLT PRESSURE COMBINED PRESSURE - > 2100 PSI)	NORMAL ISOLATION SHITOFF VALVE (28VIC) - LANDING GEAR CONTROL - UP (FLT) OR FLIGHT PRESSURE SHITCH - < 2100 PSI AND LEPT OF RIGHT MLD WEIGHT ON WHEELS NOT	FLY(OND AND COMBINED GRID TEST SRUTOFF VALVE (28VDC) - TRANSFER FURP - ON AND LEFT AND KIGHT KIG - WEIGHT ON WHEELS AND EXTERNAL AC PORER - ON LINE	BACKUP MODULE GROUD SOLINGID VALVE (SÖVDC) = EXTENAL AC PAR - OH LETT AND LETT AND RIGHT M.G - WEIGHT ON MURELS AND ARK HTG CORT (A 180°P) MODULE THE SMITCH - CLOSED (< 180°P)
2	7	Reference Drewings	INSPD FIG. 35 ZONE 239, 196 BB, 78, 1A, 3A 58, 7A		IMSPD FIG. 35 ZONE 24C, 20C, 8A, 7A, 1A	IMSFD FIG. 35 ZONE 24B, 20B, 16B, 12B, 5B, 4B, 3B, 1A	INSPD FIG. 35 200 LM, 39, 40, 58, 268, 268 258, 278
THE III P-14 SOSTEL BOCLEAN ENANTORS	•	Special Considerations a)THE TEBM (XASHO & PERIS) a EPRIS) REQUIRES 10 SECOND THE DELAY APPER OUNG TO (XASHO & EPRIS) c EPRIS) b) ESS. NO. 2 BUS		A) THE TRIM (ASSESSED FOR 35) THE TRIM (ASSESSED FOR 114, 34) THE SECOND DELAY AFTER 24, 58, 48, 39, 20, 28.5. NO. 2 BUS	ESS. NO. 2 BUS	ESS. NO. 2 BUS	ESS. NO. 2 BUS
T.BLE 111 P-14 S	•	Bus/Load Management Priority	a	a	ou .	O.	N.
		Solid State Controller List Cross Reference	3 2	263	3 8	592	38
	e	Transducer List Cross Reference	20 20 20 20 20 20 20 20 20 20 20 20 20 2	20 00 00 00 00 00 00 00 00 00 00 00 00 0	8888	8888	20 00 00 00 00 00 00 00 00 00 00 00 00 0
	Q.	Boolean Equation	4512-62 - 4513183 • (4513187 - 4513180 • (1513187 - 4513180 • (15131800 • (15	(43126) - (43189) - (43189) - (43189) - (43181) - (43181) - (43181) - (43189	431264 • (GDSOSZ + DHSO2Z) • (GDSOSZ +GDSICZ)	451265 - 46318c • 605002 • 605102 • XAS180	491266 • XAS180 • 005002 • 005102 • • 403189 • 403189
	-	Table Item #	562	S92	76	\$65	99

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80	Rquetion Description & Notes	PLIGHT CONTROL BACKUP MODULE - KLECTRIC MOTOR HIGH SPEED HELAY ENERGIZED (HIGH SPEED) = ENERGY PLY HYD - HY OK LEFT AND MOGHT MAG WEIGHT ON SMITCH - CLOSED (COOL) AND EXTERNAL AC TWR - ON LINE	PLIGHT CONTROL BACKUP MOJULE - ELECTRIC MOTOR TOWN SERVEN) - BERGY PIT HTD - LAW OR COMBINED AND PLIGHT PRESSURE SAITCH'S <2100 PST $\overline{\rm AND}$ EXTERNAL AC PAR - NOT ON LINE	FLIGHT CONTROL BACKUP MODULE - ELECTRIC MOTOR #A, B & C = 115 VAC R MAIN BUS ENERGIZED	HTDRAULIC PRESSURE TRANSAUTER (COMBINED) (37KE) - 115 VAC AND HTDRAULIC PRESSURE INDICATOR (COMB) (37ML) - 115 VAC = 115 VAC ESS NO. 2 INSTR BUS ENERGIZED	HYDMULIC PRESSURE TRANSMITTER (FLICHT) (3781) - 119MC AUD HYEMULIC PRESSURE INDICATOR (FIT) (3781) - 119MC = 119MC ESS. NO. 2 INSTR BUS EMERGIZED	PILOT CANTION ALWISON INDICATOR (69A1) HTD PHESS (ILLANIMATED) = COMBINED PRESSURE - < 2100 PSI OR FLIGHT PRESSURE < 2100 PSI	HYDMAULIC PHESSUHE INDICATOR (36A2) - 28VDC = 28VJC ESS NO, 2 BUS ENERGIZED	Dergency Flight htumulic indicator (3741) (10A) = 1.Ept or right mig - wight on wheels not <u>and</u> backup modul e pressure saitch - closed	
7	Reference Drawings	IMSPD FIG. 35 ZONE 25A, 6C, 5B, 7C, 1A, 4B, 3B	IMSPD FIG. 35 ZONE 25A, 7C, 4C, 5B, 2B, 1A	INSPD FIG. 35 ZONE 1B, 25A	IWSFD FIG. 35 ZONE 3B, 2C, 1C	INSPD PIG. 35 ZONE 3C, 2C, 1C	INSPD PIG. 35 ZONE 4A, 2B, 1A	INSPD FIG. 35 ZONE 1A, 5A	INSFD FIG. 35 20NE 28C, 26C 7A, 6C, 5B, 4B, 3B, 1A.	
9	Special Considerations	ESS. NO. 1 BUS	ESS. NO. 1 BUS	R. MAIN BUS	ESS. NO. 2 BUS	ESS. NO. 2 INSTR BUS	ESS. NO. 1 BUS	ESS. NO. 2 BUS	ESS. NO. 1 BUS	
•	Bus/Load Management Priority	1		£	N	a		8	-	
	Solid State Controller List Cross Reference	197	898	569	гл	272	273	274	275	
	Transducer List Cross Reference	900 900 900 900 900 900 900 900 900 900	28 88 88 88 88 88	N/A	W/A	ч/н	n a	N/A	100	
æ	Boolean Equation	QCIZ67 = QCSIB6 + GDSOC2 = GDSIC2 • QCSIB9 = QCSIB9 • XASIB0	4. DH3031 • DH3032 • XAS180	QG1269	DH1271	DH1272	DH1273 + DHS031 + DHS032	DH1274	<u> व्याप्त</u> (क्र <u>डक्ट</u>) । क्र <u>डक्ट</u>	
7	Table Item #	192	992	569	27	æ	273	27%	275	
	3 4 5 6 7	2 3 4 4 5 6 7 Transducer Controller Management Special Special Perence Reference Priority Considerations Desirance	Solid State Solid State Solid State Controller Institute Controller Institute Controller Institute Controller Institute Instit	Transducer Solid State Bus/Load Special Befrence Controller Bus/Load Special Befrence Controller Bringenent Considerations Befrence Priority Considerations Drawings Considerations Considerati	Transducer Controller Bus/Load Special Perence Controller Controller	Transducer Solid State Bus/Load Special Bus/Load Special Speci	Transducer Solid State Bus/Load Special Beference Controller Bus/Load Special Beference Controller Bringement Considerations Beference Priority Considerations Drawinge Drawinge Conscious Considerations Considerations Drawinge Conscious Considerations Drawinge Conscious Considerations Drawinge Conscious Considerations Drawinge Conscious Considerations Drawinge Drawinge Conscious Considerations Drawinge Conscious Considerations Drawinge Conscious Considerations Drawinge Conscious Conscious	Particular Par	Prince P	Transducer Bolid State Bus/Acad Bectan Bus/Acad Bectan Bus/Acad Bectan Bus/Acad Bectan Bus/Acad Bectan Bus/Acad Bectan Bus/Acad Bus/A

1				
FIGUR 35 SHEET 3	8	Rquation Description & Motes	- (IH) (THE) BORNOTE THORITO THORITOR (THE) - OTHER THORITORY AND HOUSE AND	SOLINOID FOMER SUPPLY (27A7) (015) - 115VAC ØA,B,C AN DETERMAL AN COMBINED PRESSURE - < 2100 PST AND ETERMAL AN END COMBINED PRESSURE - < 2100 PST ANTIN AC WR - ON LINE) OR (LEPT AND RIGHT OR LEPT WITH AC WR - ON LINE) OR (LEPT AND RIGHT MIG - WEIGHT ON WHEELS AND GND CLG - OBC/CABIN AND OIL FLOM - > 1.0 GPM)
=	1	Reference Drawings	INSPD FIG. 35 ZONE 28C, 26C 7A, 6C, 5B, 4B, 3B, 1A	INSPD FIG. 35 38, 28, 1A. INSPD FIG. 4A 724, 734, 735, 71C 70C, 2A, 1B
TABLE III P-14 SOSTEL BOOLEAN BOUATIONS	9	Special Considerations	ESS. NO. 1 BUS	ESS. NO. 1 BUS
TABLE III P-16	•	Bus/Load Management Priority	1	-
		Solid State Controller List Cross Reference	276	270
	•	Treneducer List Gross Reference	100	8 8 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
	es.	Boolean Equation	UHL276 = (GDS002 • GDS102)	
	-	Itali Itali	276	2.70

SHEET 7	13 Conditioning Technique	RESISTOR DIVIDER ADAPTER	SOLID STATE	RESISTOR DIVIDER ADAPTER	MESISTOR DIVIDER ADAITER
FIGURE 37 SHEET 1	12 Associated Boolean Equation) OST			
	11 Reference Drawings	IWSPD FIG. 37 ZONE 5C	INSPD PIG. 37 ZONE 5A	INSFD FIG. 37 ZONE 4B	INSPD FIG.
	10 Operational Address	95918	03917	61450	0980
	9 Conventional Switches Being Replaced or Deleted	N/A	SPOILERS-ON/OFF SMITCH	м/л	N/A
TRANSDUCERS	8 Associated Loads	HYDRAULIC PRESSURE INDICATOR (37M1)	OUTBOAKD SPOILEKS MOTOR-PLAP POWER KELAY KJ	SAME AS ITEM 106	106 AS ITEM
TABLE I F-14 SOSTEL SIGNAL TRANSDUCENS	7 Present Signal Characteristics	> 2000 ± 50PSI= GND > 2000 ± 50PSI= OPEN	CHED	ON = SMITCHED 289 OFF = OPEN	> 275° + 15° = 15°
TABLE I	6 Transducer Type		NPO'S LEPPOZGLE SMITCH ON = OPEN KREE PANEA PS300 PS300	PHESENTLY ELEC. CONTACTORS (REQUIRES VOLTAGE SENSE CIRCUIT FOR	гэно затон
	Point of Origin	LEFT SIDE PRESSURE FS440 SMITCH	NFO'S LEF KNEE PANEI FS300	LEFT SIDE PRESENTIX FS330 ELEC. ML140 CONTACTOR (REQUIRES VOLTAGE SI CIRCUIT F	
	it Signal Source Box Identification	SPOILER/HIGH-LEFT BACKUP MODULE (53BL) PRESSUKE SMITCH	SYSTEM TEST - SYSTEM FOMER PANEL (790A1) SPOILERS SMITCH	AC FOMER CONTACTOR ASSEMBLY (66A3K3)	SPOILERS/HIGH-LIFT BACKOF MODULE (528) TEMPERATURE SAITCH
	3 Identifier Code	DHS 105	cds 106	XAS107	PAS108
	2 Signal Mame/Function	PRESSURE - > 2000 ± 50 PSI	SPOILERS - ON	EXTERNAL ELECTRICAL FOMER - ON	> 275 ± 19
	Table Item	જા	92	701	901

	_			
FIGURE AL SHEET A	21	Associated Boolean Equations	081	tg.
	п	Reference Drewings	INSPD FIG. 37 ZONE 3C, 5C	INSID FIG.37 ZORE 7B, GA 3B, 3A 3B, 3A
	10	Ident1fler Code	ин1380	CGLLBh
	6	Operational	60110	95060
TABLE 11 F-14 SOLLD STATE FORER CONTRALLERS AND DRIVERS	80	Conventional Devices Being Repiaced	CRED(5A) HYD PRESS IND (36A2)	CB35(SAM) OUTBOARD CB33(SAM) OUTBOARD CB33(SAM) OUTBOARD CB31(SAM) OUTBOARD CB31(SAM) OUTBOARD CB31(SAM) OUTBOARD CB36(SAM) OUTBOARD CB66(SAM) OUTBOARD CB67(SAM) CB17 CB17 CB17 CB17 CB17 CB17 CB17 CB17
ID STATE PORE	-	P.C. Location		
NS 67-2 11 278	9	Load Power Dissipation		
4	•	Duty		
	4	Associated Loads	HYDEAULIC PRESSURE INDICATOR (37M1) SPOILER	SPOILER/HIGH-LIFT BACKUP WOULE (5391) ELECTRIC MOTOR
		Rating V & I	V=28VDC I=5A	Vallsyac Ababa & C I-So AMP Each
	8	Type of Power Controller	DC- 1 POLE (INDICATOR DRIVER)	AC-3 POLES
	-	Table Item #	180	181

	_			
71GUR 37 SHEET 1		Mustion Description & Motes	SPOILER PRESSURE ON - PRESSURE SAITCH INDICATING > 2000 ± 50 PSI	ALISVAC, MA, B. A. C. POMER TO THE SPOILER/HIGH LIFT BACCHE POULLE MOTH IS OFF. HIN SARENZ & CG. OR SISTERN TEST SPOILER SAITCH IS OFF AND EXTERNAL POMER POR ONE TEST IS ON OR IS OFF AND THE FLAP HANDLE IS C. CO. THE BACKUP HOULET TRAVERANTHE SAITCH INDICATES > 279° · 15° AND THE MAI HANDLE IS UP OR I. AND R MAI WEIGHT IS OM WHEELS.
TABLE III F-14 SOSTEL BOQLEAN BRUATIONS	1	Reference Drawings	IWSPD PIG. 37 ZONE 3C, 5C	IMSPD FIG. 37 20ME 7B, 6A, 6G, 5C, 4B, 3B 34
	9	Special Considerations	ESS. NO. 2 BUS	RIGHT MAIN BUS
TABLE III F-14	•	Bus/Load Management Priority	a	~
	4	Solid State Controller List Cross Reference	180	181
	8	Transducer List Cross Reference	501	28 % % % % % % % % % % % % % % % % % % %
	e e	Boolean Equation	энгтво - ризтоб	(1111) - (111) - (111) - (111) - (111) - (111) -
	-	Table Item #	180	τετ

SHEET 1	13 Conditioning Technique	SOLID STATE	EXTERNAL SIGNAL ADAPTER	SIONAL ADAPTER
FIGURE 38 SHEET 1	12 Associated Boolean Equation	961	622	230
	11 Reference Drawings	IWSFD FIG 36 20NE 1A NAVAIR 01-P14AAA 2-2-6 00660 FIG. 2	IMSPD FIG. 38 ZONE BB	JUSED FIG. 38 ZONE BC
	10 Operational Address	04P15	07023	omet
	9 Conventional Switches Being Replaced or Deleted	TEMP SMITCH (70A4)	N/N	N/A
TRANSDUCERS	8 Associated Loads	1a) L OIL HOT b) R OIL HOT FILOT CAUTION & ADVISORY INDICATOR	R OVSP/VALVE LAMP P/O FILOT CAUTION ADVISORY INDICATOR (69a1)	1. OVSP/VALNE LIANE PLO FILLON CANTION ADVISORE (69A1)
TABLE I F-14 SOSTEL SIGNAL TRANSDUCERS	Present Signal Characteriation > 250°P = SMITCH a c 250°P = 0PSM P		OVSP = 28VDC OVSP = OPEN	OVER - OPEN
TABLE I F	6 Transducer Type	ТЕМРЕКАТИКЕ SMITCH	N/A	N/A
	5 Point of Origin	RIGHT ENGINE FS380	RIGHT SIDE	SIDE FYZZO
	li Signal Source Box Identification	ENGINE OIL TEMP SWITCH (70A4)	ENGINE ROTOR OVERSPEED DETECTOR (34N3.)	ENCINE ROTOR (JAMEL) (JAMEL)
	3 Identifier Code	BM 3109	EUS157	
	2 Signal Name/Punction	RIGHT ENG OIL TEMP > 250°F	RIGHT OVSP	LEFT OVSP
	Table Ites	109	157	84.

12	Associated Boolean Equations	182	183	164	185	186	187	166	189	95
п	Reference Drawings	INSPD FIG. 38 ZONE 11B, 1A	INSPD FIG. 38 ZONE 15A, 1B	IMSPD FIG. 38 ZONE 6B, 1B	IWSFD FIG. 38 ZONE 6B, 1B	IWSFU FIG. 38 ZONE 9B, 1B	INSFD FIG. 38 ZONE 10C, 1B	INSED FIG. 36 ZONE IA, 7C 11B, 14B	IWSPD PIG. 38 ZONE 1A, 7B	INSED FIG. 38 ZONE IA MARAIR 01- PI-MARA-2-2-6 OCCOO FIG. 2
10	Identifier Code	ENLIB2	енглв3	Harina.	EUL185	эдтлэ	ец.187	енгл в 8	6ягла	обтна
6	Operational	ototo	03425	93060	03927	93656	03056	05493 05493 03430	05401	ttato
89	Conventional Devices Being Replaced 66(3A) ENG. STALL TONE 6A(2) AN IND. (35A2) AN IND. (35A2) C22(3A) L. ENG. Ng TACH 5A2)		(35A2) (35A2)	1352) 1352) 1855(3A) L. TIT IND. 1352)		35A2)	ELIO(3A) ENG. NUEL FLOM	RE4(5A) OVSP CAUTION/	сее ⁴ . (тът 189)	
7	P.C. Location									
9	Loed Power Dissipation									
۰	Duty	100%	1000	1008	1008	100%	100		100	
,	Associated Loads	TONE GENERATOR (34A2)	FUEL PLOM INDICATOR (34M1)	RFM INDICATOR (34M3) (LEFT CHANNEL)	RFM INDICATOR (34M3) (RIGHT CHANNEL)	TIT INDICATOR (34MZ)	TIT INDICATOR (34MZ) (RIGHT CHANNEL)	a) ENGINE ROTOR OVERGREED DETECTOR (34M2) b) FUEL RATE-OF-FLOW FOMER SUPPLY (34A1) c) FF INDICATOR (34M1)	ENGINE ROTOR OVERSPEED DETECTOR (34MG1)	H OIL HOT PILOT CAUTION & ADVISORY INDICATOR (69A1)
	Pating V & I	V=28VDC 1= 3A	V=115VAC ØB I=3A	V-115VAC ØB I = 3A	V=115VAC ØB I = 3A	v=115vac pb I = 3A	v=115vac pb I = 3A	v=115vac øb I = 3A	V=28VDC I = 5A	V=28VbC
cu.	Type of Power Controller	DC - 1 POLE	AC - 1 POLE	AC - 1 POLE	AC - 1 POLE	AC - 1 POLE	AC - 1 POLE	AC - 1 POLE	DC - 1 POLE	LAMF DRIVER
-	Table Item #	182	183	184	185	186	187	881	189	961
	3 4 5 6 7 8 9 10 11	2 3 4 5 6 7 8 9 10 11 Type of Power Bating Controller Associated Loads Duty Oycle Power Disabilities P.C. Disabilities Procession Permitten Permitten	Type of Ruthar Nature Partial Partial	Type of Ruth Photo Photo	Σtype of Partial Buting Load 7 6 7 9 10 11 Type of Partial Buting Laboration Controller Partial Load Load Controller P.C. Partial Load Load Controller P.C. Partial Load Load Controller P.C. Dissiple Controller P.C. Dissiple Controller P.C. Dissiple Controller Partial Load Load Load Load Load Controller Partial Load Load Load Load Load Load Load Load	Type of Partial Controller Partial Controller P.C. Load P.	Type of Reting Page 1 Page 2 Page 2 Page 2 Page 2 Page 3 Pa	Parker P	Particular Par	Particle Particle

	21	Associated Boolean Equations	161
	п	Reference Drawings	INSED FIG. 39 2006 10, 24, 48
	10	Identifier Code	т.
	6	Operational	
	80	Conventional Devices Being Replaced	PRESS/NOZ IND (35A4)
	7	P.C. Location	
-	9	Load Power Dissipation	
4	5	Duty	\$001 \$001 \$010 \$010
	•	Associated Loads	a) H ENG. EXHAUST MOZZIE POSITION INDICATOR (3444) PERSSHIE INDICATOR (3446) POSITION TRANSHITER (3454) A OIL PRESSHE TRANSHITER (3412)
	3	Rating V & I	I = 3A
	2	Type of Power Controller	AC - 1 FOLE
	-	Table Item #	<u>s</u>

PTGURE 36 SHEET 3	21	Associated Boolean Equations	<i>8</i> 61								
MODIE	11	Reference Drawings	IMSFD F18,3d Zone 1C, 3B, 3C, 4B, 4C								
	01	Identifier Code	EM292								
	6	Operational	98860								
TABLE II F-14 SOLID STATE POWER CONTROLLERS AND DRIVERS	8	Conventional Devices Being Replaced	CB/(3A) L Eng. 011 Fress/Noz Ind.								
ID STATE POWE	-	P.C. Location						A.			
BLE II F-14 SO	9	Load Power Dissipation									
A	٠	Duty Cycle	1001	100%	100%	100%				,	
	•	Associated Loads	s) Left oil pressure transmitter (34 L2)	b) Left exhaust nozzle position transmitter (3484)	c) Left engine oil pressure indica- tor (4Mg)	d) Left engine ex- haust nozzle position indica- tor (3MMS)					
		Rating V & I	V-26 VAC								
	a	Type of Power Controller	AC-1 Pole							4	
	-	Table Item #	367								

N	_		
FLOURE 38 SHORT 2	•	Equation Description & Notes	26vAC to the a) L. Oil press, transmitter b) L. Ethaust nozie position transmitter c) L. Eq. oil press, indicator d) L. Eq. exhaust nozie position indicator - 26vAC engine instrument has energized .
9	7	Heference Dravings	1168 P Fig. 38, 30
TABLE III F-14 SOSTEL BOLLEAN EQUATIONS	•	Special Considerations	Eng., Inst., Bus
TABLE III P-14	•	Bus/Load Management Priority	N
	4	Solid State Controller List Cross Reference	292
		Transducer List Cross Reference	\$
	2	Boolean Equation	кпус
	- -	Table Item #	361

PTOURE 39 SHEET 1	13 Conditioning Technique	Solid state	Resistor Divider Adapter	Solid State	Real ator Divider Adapter
FLOURE 39	Associated Boolean Equation	193	193	25.05	£61.
	11 Reference Drawings	INSPD P16. 39 Zone BA	INSPD P1g. 39 Zone BA	INSPD FIG. 39 Zone LC	INSPD PIG.
	Operational Address	0630	16490	05821	66410
	9 Conventional Switches Being Replaced or Deleted	Left engine mach switch	м/м	Left Diffuser Hamp out of stow switch (32%)	٧/٧
TRANSDUCERS	8 Associated Loads	Left engine MCB Bleed Control Solenoid	Left engine NCB Bleed Control Solenoid		a) KZOO R, engline air- floo iss. provesent (liet delay (liet glove relay box 773Al) b) KZOI - L, engline sir-floo iss. provesent tile delay (left glove relay (left glove relay floo 773Al) c) Left engline kills floo iss. provesent tile delay (left glove relay floo 773Al) so c) Left engline Kills floo iss. provesent true delay (left engline Kills floor relay floor
TABLE I P-14 SOSTEL SIGNAL TRANSDUCERS	7 Present Signal Characteristics	2 2.1 Mach = evitched 28VDC < 2.1 Mach = open	Idle - switched 28WDC, IMPD and above - open	Not stowed > 0.9 Left engine Mech = switched MCB Bleed 28Mpc Control Stowed < 0.9 Mach = Open	<pre>< 310 = Switched a) E200 R,</pre>
TABLE I P	6 Transducer Type	Limit Switch	Limit switch	Lert inket Limit switch Glove FS460	Linit Svitch
	5 Point of Origin	Left Engine 13650	Left En- gine Electro- Mech Ro- tary Actua- tor FSG40	Lert inlet Glove F3460	Pilots Left Side Console FS25
	4 Signal Source Box Identification	Left Engine Mach Switch (MCB Bleed System)	Left engine PLA switch (MCB Bleed System)	Left diffuser ramp out of stow switch (3294, [Left sir inlet control system)	(711A1)
	3 Identifier Code	ксзпо	KCS111	KUSIAZ	GEN13
	2 Signal Name/Function	Left engine mach switch - > 2.1 Mach	Left engine FLA Switch - idle	ed > 0.9 Mech	< 31°
	Table Item	110	а	1115	ET .

PICURE 39 SHEET 2	13 Conditioning Technique	External Sig- nal Adapter	Solid State	Solid state	Real ator Divider Adapter
PIGURE 39	12 Associated Boolean Equation	£6t	193	25.	*
	11 Reference Drawings	IWSPD P16. 39 Zone GA IWSPD P16.4 Zone 15C, 19C	16870 Fig. 299	INSPD PIG. 39 Zone 5B	INSPO PAG. 39 Zone 3C
	10 Operational Address	Latso	9759	07830	02143
	9 Conventional Switches Being Replaced or Deleted	м/А	a) E201 lert M:B Madder Switch eingine air- flow improve- eineit timor ment timor ment timor melay tox (Lert glove TT3A1) b) E200 airflow im- provement time eingine airflow im- provement time eingine airflow im- provement film eingine airflow im- provement ming den glove relay (Lert glove ment time eingine airflow im- provement melay (Lert glove relay tox TT3A1)	MCB Rudder Switch (80%2)	м/м
THANSDUCERS	8 Associated Loads	K66- L AlCS bleed door post- tion/MCB relay (left glove relay box 773Al)	a) E201 lert custine air- flow improvement timewe ment timewe delay relay (lert glove relay box relat engine b) E200 right engine airflow im- provement time delay relay (lert flime delay relay (lert flime delay relay (lert flime delay relay (lert flime delay relay (lert flow flow relay (lert flow flow flow relay (lert flow flow flow flow flow relay (lert flow flow flow flow flow flow flow flow	Some as Item 115	H.B. bised control aclosed control aclosed enough b) KZOO - R, engine alf-engine alf-engine alf-engine alf-engine alf-engine alf-engine entrangles along the glove relay box 773A1)
TABLE I F-14 SOSTEL SIGNAL THANSDUCERS	7 Present Signal Characteristics	ON = GND OPP = OPEN	> 10° = switched 2890c < 10° = Open	> 10° - switched Same as 28VDC Item 11; < 10° - Open	< 31° = Switched 28WDC > 31° = Open
TABLE I	6 Transducer Type	N/A (Helay Drive Cir- cuit)	Limit multich	Limit switch	Limit aviten
	Point of Origin	rs360	00/134	FS700	Plots left side side con- sole FS225
	ly Signal Source Box Identification	Left air inlet con- trol programer (32A6)	(6031)	MCB Rudder switch (BOSZ)	(711A1)
	3 Identifier Code	KCS114	cusm.5	cosme	фквът
	2 Signal Name/Punction	Left Bleed Exit Door Command - ON	Rudder lert deflection - > 10°	Rudder fight deflection - > 100	- < 31°
	Table Item	ň	fi	116	ın
	T A	7	3	=	3

SHEET 3	13 Conditioning Technique		Solid state	External Signal Adapter	Solid state	Real stor Divider Adapter
FIGURE 39 SHEET 3	12 Associated Boolean Equation		48	161	4. 5%	193
	11 Reference Drawings		INSED FIG. 39 Zone 4A	INSPD FIG. 39 Zone 6B INSPD FIG.4 Zone 19A, 16C	INSPD Pig. 39 Zone GC INSPD Pig. 41 Zone 8B	1999 Pig. 2cone 3C
	10 Operational Address		94216	ornes	4h4go	01140
	9 Conventional Switches Being Replaced or Deleted		Not stowed > 0.9 Right engine Diffuser reap out of Mech = switched (288) Stowed control solemoid control solemoid enoid Mech = Open	N/A	inflight refuel probe door awitch (6251)	и/А
TRANSTACERS	Associated Loads	c) K201 - I. flow in- provement time delay relay (left glove relay box 773A1)	Right engine MCB bleed control sol- enoid	M67 right blend door position/ MCB relay (left glove relay box 773A1)	KB7 MCB Open/refuel- ing probe (Left glove relay box 7734A1)	KBB - > 120 AOA Relay (R. Glove relay box TTPA1)
TABLE 1 F-14 SOSTEL SIGNAL TRANSFLOCERS	7 Present Signal Characteristics		Not stowed > 0.9 Mach = switched 28Vpc Stowed < 0.9 Mach = Open	OFF - Open	Door Open - GND Door closed - 28VDC or open	> 17 units - switched 28VDC < 17 units - open
TABLE I P	6 Trensducer Type		Limit myitch	N/A (Relay drive cir- cuit)	Limit evitch	Limit switch
	Point of Origin		Right in- let glove FS460	F3360	Kight FS170	Flots left in- strument panel FR25
	signal Source Box Identification		Right diffuser runp Right in- out of stow switch let glove (3288) (right air FS460 tem)	Right air inlet control programer (32A7)	inflight refuel probe door switch (6231)	Angle of Attack (AGA) indicator (45A2)
	3 Identifier Code		ксs 118	KCS119	ozisi6	FIS121
	2 Signal Name/Function		Right not stowed > 0.9 Mach	Hight bleed exit door commend - ON	Inflight re- fueling probe door - Open	AOA > 17 unite (> 12º AOA)
	Table Ite	117 (cont'4)	118	6tt	150	121

SHEET 4	13 Conditioning Technique	Solid state	Bivider Adapter
PLOURE 39 SHEET 4	12 Associated Boolean Equation	4 0	₫.
	11 Reference Drawings	INSFD Fig. 39 Zone 8A	Pig. 33
	10 Operational Address	07P31	अफ उ
	9 Conventional Switches Being Replaced or Deleted	Right engline Mach switch	N/A
TRANSDUCERS	Associated Loads Loads Hight engine WE bleed control sol-		Right engine Wib bleed control sol- enoid
TABLE I F-14 SUSTEL SIGNAL TRANSDUCERS	7 Present Signal Characteristics	> 2.1 Mach = Switched 28VDC < 2.1 Mach = Open	Idle = Satched 280m; Iffro and above = Open
TABLE I	6 Transducer Type	Limit switch	Limit switch
	5 Point of Origin	Right Engine FS650	R, engine Bech Hech. Rotary Actuator FSGAO
	4 Signal Source Box Identification	Kight engine Mach switch (MCB bleed system)	Right engine PlA switch (#38 bleed system)
	3 Identifier Code	KCS122	KCS123
	2 Signal Name/Punction	Right engine Mach switch - > 2.1 Mach	Right engine FA switch - idle
	1 Table Item #	755	ឌ

				-							
FIGURE 12 SHEET	21	Associated Boolean Equations	193								
	п	Reference Drawings	INSPD F18. 39								
	01	Identifier Code	KJL193								
	6	Operational	99908								
CALLE II THE SOLLD STATE THER CHIRALESS AND DEVELO	80	Conventional Devices Being Replaced	CB57(5A) L mid CPRSN bypose (36A2) (Same of item 151)	CB59 (5A) Mach lever shift (36A2)	P/O KIB M.G handle relay A (Left glove relay box 773Al)	P/O K57 Gan/missle firing interlock 5 sec- ond time delay relay (left glove relay box 773A1)	P/O K66 L, AICS bleed door position/MCB relay (left glove, relay box 773Al)	P/O K201 Left engine airthow improvement time delay relay (left glove relay box 773A1)	F/O K88 > 12° angle-of- attack relay (right glove relay box 772A1)		
THE STATE OF	7	P.C. Location									
חפ גר-ז דו פומי	9	Load Power Dissipation									
4	2	Duty									
	4	Associated Loads	Left engine MCB bleed solenoid								
		Rating V & I	V=28VDC I=5A								
	N .	Type of Power Controller	DC-1 Fole								
	-	Table Item #	£6t								

							-				_	
PTOUR 39 SHEET 2	ส	Associated Boolean Equations	75.7									
E	п	Reference Drewtings	INSPD Fig. 39									
	01	Identifier Code	KUDA									
	6	Operational	10901									
TABLE II F-14 SOLID STATE FOWER CONTROLLERS AND DRIVERS	80	Conventional Devices Being Replaced	CBSB (5A) R mid CPRSN bypass (36A2) see item 140	CB59 (5A) Mach lever shift (36A2) (shared with item 193)	P/O K87 MCB Open/ re- fueling probe (left glove relay box 773A1)	P/O K67 right bleed door position/MCB relay (left glove relay box 773A1)	P/O K200 right engine sirflow improvement time delay relay (left glove relay box 773A1)	P/o K57 Gan/Missle Firing interlock 5 sec. time delay relay (left glove relay box	P/O K2O MLG control handle relay B	F/O K88 > 12 ^o AOA reley (right glove reley box 772A1)		
ID STATE FORE	1	P.C. Location										
BLE 11 P-14 SON	9	Load Power Dissipation										
a	2	Duty										
	,	Associated Loads	Aight engine MCB BLEED SOLENOID									
	•	Rating V & I	V=28VDC I=5A									
	8	Type of Power Controller	DC - 1 Pole									
	7	Table Item #	76.1									

-				
PTOURS 39 SHEET 1	8	Equation Description & Notes	28VDC to the left engine mid compression hypess bleed solenoid = left engine 2 2.1 Mech OR left engine 2 2.1 Mech OR left engine 4 2.1 Mech OR left engine Harlink Alb Ch Analecon OR left air inter throttoe - 310 of (Qun/Mtsale Mtring) - OR left air inter bleed exit door command OR (Left throttle - <310 AND radder deflection > 120 AND left throttle - <310 AND radder of throttle - <310 * (Can/Mtsale firing) - Requires 5 second drop-out time delay siter siangle goes false ** (Left throttle <310 and radder deflection > 710 left or right) - Requires 1 second drop-out time delay left of throttle <310 and radders < 100, "Immediate" drop-out time delay if throttle <310 AND radders < 100, "Immediate" drop-out time delay if throttle > 310 AND radders < 100, "Immediate"	26VDC to the right engine aid compression bypass bleed selected = 1 aght engine = 2.1 Mech OB right engine Rid - 1Diz AMD MG bandle-down OB right that diffuser ramp - not stoored AMD right throttle - < 30 GM (Gaudhalas Firthy) *** OB Tight air inlet bleed exit door command OB inflight refueling probe door - open OB (right throttle - < 310 AMD radder defection > 10° left of right) *** OB angle or attack - > 12° AMD right throttle - < 310 AMD radder defection > 10° left of right) *** OB angle or attack - > 12° AMD right throttle < 310 AMD madder deflection > 10° left OB right) - regoon drop-out time delay after signal goes false *** (right throttle < 31° AMD radders deflection > 10° left OB right) - regoon drop-out time delay IF throttle < 30° AMD radders < 10°, "immediate" drop-out if throttle > 31° and radders > 10°
왥	7	Reference Drawings	INSED PAG. 39	INSPD P18. 39
TABLE III P-14 SOSTEL BOOLEAN EQUATIONS	9	Special Considerations	a) See ", "" b) Ess. No. 2 Bus	b) Ess. No. 2 Bus
TABLE III P-14	٠	Bus/Load Management Priority	Q	Q
		Solid State Controller List Cross Reference	193	₹.
	8	Transducer List Cross Reference	28,841,111,111,111,111,111,111,111,111,11	23 E 23 E 24 E 24 E 24 E 24 E 24 E 24 E
	N	Boolean Equation	KGL193	**************************************
	-	Table Item #	193	ž.

SHEET 1	13 Conditioning Technique	SOLID STATE	SOLID STATE	MENTER AINFTER
FIGURE 40 SHEET 1	Associated Boolean Equation	23 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	23.23.28.28.25.25.25.25.25.25.25.25.25.25.25.25.25.	22 22 22 22 22 22 22 22 22 22 22 22 22
	11 Reference Drawings	INSPD FIG.	IMSPD FIG. 40 Zone 4a	ZONE 11B
	10 Operational Address	0.1141	01 % 2	8.65
	9 Conventional Switches Baing Replaced or Deleted	K9 - ENG. CRANK - 1/R L. ENG. STRATSMITCH 33 A RELAY KT-L. ENG. START B RELAY RISHLAROUS START B RELAY RIS	ENG. CHANK = 1/R SATTCH S1 EOUS	м/А
TRANSDUCERS	8 Associated Loads	K9 - L. ENG. STAR(SMITK A RELAY K7-L. EBG. START SMITK K7-L. EBG. START B B RELAY BOX T7A1) T7A1) START A RELAY T7A2) START A RELAY T7A1) START A RELAY TGGTT GLOVE	KI5 - R. ENGINE STAFF RELA K9-R. ENGINE STAFF B RELA K9-R. ENGINE STAFF B RELA STAFF A RELA MISCELLANE MISCELLANE STAFF B RELA STAFF B RELA FILLANE STAFF B RELA FILLANE STAFF B RELA FILLANE FILLANE STAFF B RELA FILLANE	
TABLE I F-14 SOSTEL SIGNAL TRANSDUCERS	7 Present Signal Characteristics	L. EMGINE CHANK SMITCHED ZÜNDC OFF = OFEN	R. ENGINE CRANK - SATTCHED 26VDC OPF = OPEN	CLOSED-SATTCHED GND OFEN-"OPEN"
TABLE I F	6 Transducer Type	SALTOSI DEUTCO	TOTALE SMITCH DEPTICO (SAME AS ITEM 131)	PHESSUR
	5 Point of Origin	PILOTS LEFT SIDE CONSOLE STA 225	PILOTS LEPT SIDE STA 225 STA 225	PS 640 SALTCH
	ly Signal Source Box Identification	EXT ENVIRONMENT/ THEOTITE CONTROL PAREL (710A1) OR ENGINE CONTROL PAREL (710A1)	EXT. ENVINOMENT/ THEOTILE CONTEGL PAREL (710A1) ENCINE CONTEGL PAREL (710A1)	LEFT ENGINE- AUTOMIC RESTART SMITCH
	3 Identifier Code	KKS 133	KKS 132	KKS 133
	2 Signel News/Punction	CHANK	CRAIN ENGINE	AUTO RESTART SMITCH-CLOSED
	Table Ites	πετ	N N	133

SHEET 2	13 Conditioning Technique	RESISTOR DIVIDER ADAPTER	RESISTOR DIVIDER ADAPTER	RESISTOR DIVIDER ADAPTER
FIGURE 40	12 Associated Boolean Equation	213 213 213 213 226 226 230 230 230	14.12.22.22.22.22.22.22.22.22.22.22.22.22.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	11 Reference Drawings	IWSFD FIG. 40 ZONE 11B	INSED FIG.	INSPD FIG.
	10 Operational Address	OTP33	06933	077734
	9 Conventional Switches Being Replaced or Deleted	N/A	N/A	и/А
TRANSDUCERS	8 Associated Loads		K9-L. ENGINE START A START A START B START B START B (L. GLOVE RELAY BOX 773A1)	KA5-R. ENGINE START A RELAY RELAY RS-LA START RS-LA RS
TABLE I F-14 SOSTEL SIGNAL TRANSDUCERS	7 Present Signal Characteristics	CLOSED=SM TCHED 28VDC OPEM = "OPEM"	CLOSED (< 45% Ng N/MIN) = 3MITCHED GRD OPEN (< 45% Ng N/MIN) ="OPEN"	CLOSED (< 45% Ng K/WIN) = SWITCHEI GND OPEN(> 15% Ng K/WIN) = "OPEN"
TABLE I F	6 Transducer Type	PRESSURE SATTON	STAKTER CENTRIPUGAL SMITCH	SMITCH SMITCH
	5 Point of Origin	RIGHT ENGINE FS 640	FS 605	HIGHT ENGINE PS 605
	4 Signal Source Box Identification	KIGHT ENGINE AUTOMATIC RESTART SALTICH	LEPT ENGINE STACTER LEPT ENGINE PS 605	STARTER STARTER
	3 Identifier Code	KKS 134	KKS 135	NGS 136
	2 Signal Name/Function	BIGHT ENGINE AUTO RESTART SMITCH-CLOSED	LEFT ENGINE CUTOFF SMITCH-CLOSED	MITCH - CLOSED
	Table Item	134	135	*

40 SHEET 3	13 Conditioning Technique	SOLID STATE	KESISTOR DIVIDER ADAPTER	KESISTOR DIVIDER ADAPTER	RESISTOR DIVIDER ADAPTER	RESISTOR DIVIDER ADAPTER
FIGURE 40	12 Associated Boolean Equation	227	558	227	529	230
	11 Reference Drawings	IMSPD FIG.	IMSPD FIG.	IMSPD FIG. 40 ZONE 7C	INSED FIG. 40 ZONE 11A	IMSED FIG.
	10 Operational Address	01P43	0.1944	01145	OTP35	₹£490
	9 Conventional Switches Being Replaced or Deleted	AIR STARTER - ON/NOIM SWITCH (SB)	N/A	N/A	N/A	N/A
TRANSDUCERS	8 Associated Loads	L. AND R. ENGINE IGNITION TEHNINATION TRANSFORMER	R. ENGINE IGNITION CONTROL P/O IGNITION TERMINATION TRANSPORMER	L. ENGINE IGNITION CONTROL P/O IGNITION TEHMINATION TRANSFORMER	R OVSP/VALVE LAMP P/O PILOT CAUTION ADVISOR INDICATOR (69A1)	L OVSP/VALVE PLOP PLOP CAUTION CAUTION AD USORE INDICATOR (69A1)
TABLE I F-14 SOSTEL SIGNAL TRANSDUCERS	7 Frement Signal Characteristics	ON = OPEN NORMAL = SHOKE	PILOTS LEPT LINIT SMITCH 53° = SMITCHED SIDE CONSOLE CPEN OR GRD FS 225 GND	PILOTS LEPT LIMIT SMITCH 53° = SMITCHED SIDE CONSOLE (SPEN OR GND CS) = SMITCHED GND GND	OPEN = SMITCHED 28VDC CLOSED = "OPEN"	LET ENGINE LIMIT SMITCH OFEN = SMITCHED TAMPER 75 605 CLOSED = "OFEN"
TABLE I P	6 Trensducer Type	TOGGLE SMITC	LIMIT SMITCH	LIMIT SMITCH	RIGHT ENGINE LIMIT SMITC STARTER FS 605	LIMIT SAUTCH
	5 Point of Origin	PILOTS LEFT SIDE CONSOLE FS 225	PILOTS LEP SIDE CONSOI FS 225	PILOTS LEPT SIDE CONSOI PS 225	RIGHT ENGIN STAKTER FS 605	FE GOS
	ly Signal Source Box Identification	EXT ENVINOMENT/ THROTTLE CONTROL PANEL (710A1) AIR START SMITCH (S8)	(711A1)	(711A1)	R, ENG. PRESSURE REGULATOR VALVE POSITION SMITCH	L. ENG. PRESSURE RECULATOR VALVE POSITION SWITCH
	3 Identifier Code	KKS 154	KKS 155	IOKS 156	EQS 159	Eqs 160
	2 Signal Name/Punction	AIR START - ON	SMITCH - 73°	SMITCH - >3	R. ENG. VALVE -	OPEN OPEN - EQS 160
	Table Ital	\$1	155	350	951	39

SHEET 14	13 Conditioning Technique	RESISTOR DIVIDER ADAPTER	AUNTIER AUNTER
FIGURE 40 SHEET 1	12 Associated Boolean Equation	234	\$62
	11 Reference Drawings	IMSED FIG. 40 20NE 54, 3A NAVAIR 01- FILAAA- 2-2-6 00800 FIGURE 2	INSPD FIG. ZOME 5A, 3A MAVAIR - O1-FIGURE 2 FIGURE 2
	10 Operational Address	orp36	• • • • • • • • • • • • • • • • • • •
	9 Conventional Switches Being Replaced or Deleted	N/A	∀ / R
TRANSDUCERS	8 Associated Loads	R. ENG. IDLE EXHAUST NOZZLE SOLENOID	EXMUST SOLEMOID SOLEMOID
TABLE I F-14 SOSTEL SIGNAL TRANSDUCERS	7 Present Signal Characteriatics	LDMIT SMITCH CLUSED (101E) = SMITCHED 28VDC OPEN (> 101E) . "OPEN"	PISE PROTOGO (IDLE) POEL TARE PROTOGO PROTOGO PROTOGO SPERI" PROTOGO SPERI" POERI" POE
TABLE 1 F	framaducer Type	LMIT SWITCH	ымит эмитон
	5 Point of Origin	FUEL PIME FUEL PIME FS 600	NEL PROPERTY SOO
	Signal Source	R. ENG. TOLE EXHAUST PROGRET NOZZIE BOLENOID BAGINA SATUCH P/O R. ENGINE PURI. PS GOT PAPP	L. ENG. IDLE EXAMPLE MOZILE SOLEMOLD SHITCH P/O L. ENG. PUEL RIME
	3 Identifier Code	EUS 161	ELS 162
	2 Signal Neme/Punction	H. ENG. IDLE EXHAUST NOZZLE SOLINOID SMITCH-CLOSED (LDLE)	L. EWO. 104E BORNOST WOZZIE SOLINGIU SATTORI CLOSED (104E)
	Table Ite	191	297

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TIONE SHEET	71	Associated Boolean Equations	422		526	722	228	529		231
	п	Reference Drevings	IMSFD FIG.40 ZONE 12A, 5, 4, 3,	IMSFD FIG.40 ZONE 3A, 4A, 8, 12A	INSED FIG.40 ZONE 12B, 5A, 3A	IWSFD FIG.40 ZONE 11B, 4B 7C, 8A	INSED FIG.40 20NE 11B, 4B, 7B, 5B	IMSFD FIG.40 ZONE 11A, 9A, 5B, 3B IMSFD FIG.36 ZONE 8B	INSPL PIG.40 ZONE 11A, 98 58, 38 INSPD PIG. 38 ZONE 8C, 9A	IWSFD FIG.40 ZONE 8A, 5B LOC
	10	Identifier Code	KKL 224	KKL 225	NGL 226	KKL. 227	KKL 228	BUL 229	EUL 230	CKL 231
	6	Operational Address	10408	60060	næs	06D41	обрые	omis	отыз	
TABLE 11 F-14 SOLID STATE PAREN CUTRULLERS AND DRIVERS	8	Conventional Devices Being Replaced	K 15 K. ENG. START A (K. GLOVE RELAY BOX 772A1) CB ⁴ (5A) ENG. START (36A3)	K9 L. ENG. START A (R. GLOVE RELAY BOX T72A1) CBi (5A) ENG. START (36A3)	K3-MISCELLANEOUS START A	K9 L. ENG. START A (L. GLOVE RELAY BOX 773A1)	K15 R. ENG. START A (R. GLOVE RELAY BOX 772A1)	CHG1 (5A) STARTER CONTR VALVE (36A2) P/O K16 MISC START B R. GLOVE RELAY BOX 772A1)	JAME AS ITEM 229	P/O K9 L.ENG.STARF A (L. GLOVE RELAY BOX 773A1) P/O K15 R.ENG.STARF A (R. GLOVE RELAY BOX 772A1)
ID STATE HWE	7	P.C. Location								
No 51-1 11 210	9	Load Power Dissipation								
4	5	Duty Cycle								
	4	Associated Loads	RIGHT ENGINE STARTER-PRESSIRE HEGGIATOR SHUTOFF VALVE	LEFT ENGINE STAKTER FRESSURE REGULATOR SHUTOFF VALVE	SOLEMOLD BY PASS VALVE FO CROSS BLEED ISOLATION BY PASS AND CHECK VALVE (72L1)	IGNITION CONTROL-D P/O LEFT ENGINE- IGNITION TERMINATION THANSFORMER	IGNITION CONTROL P/O RIGHT ENGINE-D IGNITION TERMINATION TRANSFORMER	k ovse/valve lane P/o filot caution Advisory indicator (69al)	L. OVSP/VALVE LAMP F/O PILOT CAUTION ADVISORY INDICATOR (69A1)	EXTERNAL AINSTART RECEPTACLE
	3	Rating V & I	V=28VLC	V<28VDC	V~28VIX			V-28VDC	v=28vix	
	N	Type of Power Controller	DC-1 FOLE	uc-1 FOLE	ic-1 Pole	OPEN/GND DRIVER	OPEN/GND DKIVER	LAMP DEIVER V=28VDC	LAMP DRIVER V=28VIC	SHOKE/OPEN
	-	Table Item #	425	82	922	227	228	229	230	231

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71	Associated Boolean Equations	28.5	. 33	234	235
ı	Reference Drawings	IMSED FIG.40 ZONE 8B, 3A NAVAIR 01- FI4AAA-2-2-6 01400 FIGURE 2	TWSFD FIG.40 ZONE 5C, 3A NAVAIR -01- F14AAA-2-2-6 01400 PIGURE 2	IMSED FIG.40 ZONE 5A, 3A MAVAIR 01- FI4AAA-2-2-6 OOGOO	INSEP FIG. 40 ZONE 5A, 3A MAYALR 01- FILMAA-2-2-6 COSO PIGHRE 2
91	Identifier Code	KEL 232	KEL 233	EU 234	ELL 235
6	Operational	οτόκο	10009	11000	office
80	Conventional Devices Being Replaced	EE3 (5A) ENG. 011. 00L (3GA2) 00L (3GA2) 1L. GLOB EELAY BOX 773A) 773A) 773A) 774B 775A 775A 775A 775A 775A 775A 775A 775	2823 (5A) ENG. OIL 200L (36A2) 70 K9 R.ENY. STRMY B 7/0 K10 MLS SAFTY G (R. GLOVE RELAY BOX 772A1)	DM. (5A) ENG. START (36A3) P/O KIO MIG SARETY G (R. GLOVE RELAY BOX (7ZA1)	BH, (5A) ENG. START (36A3) (36A3) (F, GLOVE RELAT BOX (772A1)
7	P.C. Location				
9	Load Power Dissipation				
2	Duty Cycle				
3	Associated Loads	LEFF ENG. EJESTOR HENLIATING SHUTOFF VALVE (TJE.) P/O OIL COGLER EJECTOR SYSTEM	RIGHT ENG. EDECTOR HECHLATING SHUTOFF VALVE (732.2) P/O OLL COCLER EJECTOR SYSTEM	K, ENG. IDLE EXHAUST NOZZLE SOLENOID	L. PRI. TOLK SOLENOID
	Reting V & I	V=28VIXC	v=28vDC	V=28VIC	V-28VIC
8	Type of Power Controller	DC-1 POLE	DC-1 POLE	DC-1 POLE	DC-1 POLE
-	Table Item #	85 20	233	234	235
	3 4 5 6 7 8 9 10 11	2 3 4 5 6 7 8 9 10 11 Type of Power Rating Controller Associated Loads Daty Cycle Power Disastpation P.C. Decation Conventional Devices Being Replaced Operational Address Identifier Ocode Personance	Type of Rating Load P.C. Conventional Devices Address Operational Devices Address Code Drawings	Pype of Rating	1

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FIGURE SHEET	80	Equation Description & Notes	RIGHT ENGINE PRESSURE RESULATOR SHUPOPP VALVE EREHIZED (28VDC) (VALVE OPEN) - EIGHT ENGINE CRAIK AND KIGHT ENGINE CUTOPP SAITCH-CLOSED	LEFT ENGINE PRESSURE REGULATOR SHOTOPF VALVE ENERGIZED (26VIG) (VALVE OPEN) = LEFT ENGINE- CHANK AND LEFT ENGINE COPPOPF SHITCH-CLOSED	SOLENOID HY PASS VALVE (CHOSS BLEED ENABLE)."= LEPT PRELIE-CHANK THAN AND DESTART SATURA-CLOSED AUTO CUTOPE SATURA-CLOSED OR EIGHT ENTIRE-CRANK AND AUTO RESTART SATURA-CLOSED AND CUTOPF SALTCH-CLOSED	LEFT ENGINE IGNITION CONTROL EMBILED (OFFN CKT.) IGNITION (M) = ALR STAFFT SHITCH-ON OUR LEFT IGNITION SMITCH- > 3° ARD LEFT ENGINE-CHANK ARD LEFT SHOTHE CUTOPE SHITCH-CLOSED OR ALESTER SHITCH-ON AND ENGINE CHANK-OFF OR LEFT ENGINE CHOOFF SHITCH-OFFN AND LEFT ENGINE AUTO RESTAFF SHITCH-OFFN	RIGHT ENGINE IGNITION CONTROL EMBRIED (OPEN CTT, IGNITION 40) - ALR STRAT STRICHON GOE BROOT TOWN CHILL > 3° ARD MOIT PROTRE-CHAIR AND RIGHT ENGINE CUTORS TATICH-COLORDO BA ARE STRAT STITCH-COM AND ENGINE CHAIR CHAIR CHAIR ENGINE CHOPS SAITCH-OPEN AND RIGHT ENGINE ATTICH-OPEN AND RIGHT ENGINE ATTICH-OPEN	R OVSP/VALVE - LANP ON (2697G) = RIGHT-OVSP OR R. ENG. VALVE-OPSP ME. L. ENG. CONVEY ON L. ENG. CONVEY STACKS SAITCH-OPSP ON L. ENG. CHOVE SAITCH-OPSP OR R. ENG. CHONE SAITCH-OPSP OR R. ENG. AND R. ENG. CUTOPE SAITCH-OPEN OR R. ENG.
21	7	Heference Drawings	IWSPD FIG. 40 ZONE 3A, 4A, 5B 12A, 11A	IMSPD FIG. 40 ZONE 3A, 4A, 8, 12A	INSPD FIG. 40 ZONE 12B, 5, 8A, 4A, 1A	INSED FIG. 40 ZONE 11B, 4B 7C, 8A	IMSED FIG. 40 20NE 11B, 4B 7B, 5B	INSEP FIG. 38 INSEP BY 94, INSEP FIG. 38 SONE 11A, 9A, 58, 38
TABLE III F-14 SOSTEL BOOLEAN BOUATIONS	9	Special Considerations	ESS. NO. 2 BUS	ESS. NO. 2 BUS	ESS. NO. 2 BUS	ESS. NO. 2 BUS	ESS, NO. 2 BUS	ESS. No. 2 BJS
TABLE III F-14	6	Bus/Losd Management Priority	a	ત્ય	æ	a	C)	α
	4	Solid State Controller List Cross Reference	224	223	526	227	228	556
		Transducer List Cross Reference	961 811	133	25.25.25.25.25.25.25.25.25.25.25.25.25.2	155 155 155 155 155 155 155 155 155 155	84.84.25 4.25 4.25 4.25 4.25 4.25 4.25 4.25	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	~	Boolean Equation	KKL 224 KKS 132 • KKS 136	KKL 225 KKS 131 • KKS 135	KKI. 226 = KKS 131 • KKS 133 • KKS 135 • KKS 136 • KKS 134 • KKS 136	KKL 227 = KKS 154 + (KKS 156 - KKS 131 • KKS 155 + (KKS 135 + (KKS 135) • (KKS 135) • (KKS 133)	KKL 228 = KKS 154 • (KKS 155 • KKS 132 • KKS 135 • KKS 135 • KKS 135 • KKS 135 • (KKS 135) • (KKS 134)	NU 229 = NU 1577 + NU 1396
	-	Table Item #	524	225	526	227	528	622

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PLOUNE NO SHEET 2	60	Equation Description & Notes	L. OYSP/VALME - LAMP ON (28MIC) = LEPT-OWSP OR L. ENG VALME - OPEN AND L. ENG. CRANK-OFP ON L. ENG. ANTO RESTART SATION-1 OPEN OR L. ENG. CUTOPF SAITCH-OPEN AND R. ENG. CHANK-OFP ON R. ENG. ANTO RESTART SAITCH-OPEN OR R. ENG. CUTOPF SAITCH-OPEN	EXTERNAL AIR STAFF EMARLED (SHORT) = 1. EMSCHARK AND L. EMS. CUTOPP SAITCH CLOSED ON R. EMSCHARK AND R. EMS. CUTOPP SAITCH CLOSED	L. ENG. EJECTOR REGULATING SHOTOPF VALVE. BARALED (28VLQ) = LEFT AND RIGHT NLG WEIGHT ON WHERLS AND L. ENG. CHANK-OFF OR L. ENG. CUTOFF SHITCH-OFEN	R. ENG. EJECTOR REGULATING SERTOPP VALVE-EMBELED (SBVLK) = LEFT AND RIGHT MLG WEIGHT ON WHERLS AND R. ENG. CHTOFF SHITCH-OPEN R. ENG. CHTOFF SHITCH-OPEN	R. ENC. IGE. EXHAUST NOZZLE SOLENOID ENEGIZED (OPEN, EVOC) - LEPT AND RIGHT NG WEIGHT ON WHELLS AND RIGHT ENG. EXHAUST NOZZLE SOLENOID SATTCH-CLOSED (IDLE)	L. ENC. INJE EXHAUST NOZZLE SOLINOID EMERCIZED (OPEN, 20VC) = LEPT AND RIGHT MIG WEIGHT ON WHEELS (IDLE) (IDLE)
21	7	Reference Drawings	INSPD FIG. 38 ZONE 8C, 9A INSPD FIG. 40 ZONE 11A, 9B, 58, 3B	IMSPD FIG. 38 20NE 10C, 8A, 5B, 4A, 11A	IMSPD FIG. 40 ZONE BB, 3A MAVAIR 01- FI4AAA-2-2-6 OI400 FIGURE 2	IMSPD FIG. 40 ZONE 5C, 3A MAVAIR-01- FIAAAA-2-2-6 Ol4GO FIGURE 2	IMSED FIG. 40 ZONE 5A, 3A MAVAIR-01- F14AAA-2-2-6 COCHOO FIGURE 2	INSED FIG. 40 ZONE 54, 34, RAVAIR-01- PHANA-2-2-6 OSOG PIGURE 2
TABLE III F-14 SOSTEL BOLLEAN EQUATIONS	9	Special Considerations	ESS. NO. 2 BUS	ESS. NO. 2 BUS	ESS, NO. 2 BUS	ESS. NO. 2 BUS	ESS. NO. 2 BUS	ESS. NO. 2 BUS
TABLE 111 F-14	2	Bus/Load Management Priority	α	a	OJ.	o.	α	0
	4	Solid State Controller List Cross Reference	230	231	34 2	233	234	235
	3	Transducer List Cross Reference	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	133 133 135	000 100 133 135	98 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	00 100 191	000 102 162
	2	Boolean Equation	EUL 230 = EUR 125 • EUS 160 • (KKS 131 • KKS 131 • KKS 135 • KKS 135 • KKS 134 • KKS 136 • KKS	KKL 231 = KKS 131 • KKS 135 + KKS 132 • KKS 136	KEL 2'9: = GDS OOC • GDS 102: • KKS 131 • KKS 135	KKI. 233 = GIS 002 •GIS 102 • KKS 132 •KKS 136	EUL 234 - GUS 002 GUS 102 - EUS 161	ML 235 • 656 002
	-	Table Item #	230	231	24,	233	234	235

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FIGURE 41 SHEET	21 ,	Associated Boolean Equations	00%			10%		8X			ξ.	Ž.		
	п	Reference Drawings	INSPD PAG. 41 Zone BC, 3A,	2B, 1B		INSPD FIG.	1A . 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	INSPD FIG.	Zone BC, BB, 3A, 1A		INSFD FIG. 41 Zone BC, 2A, 1A	INSFD FIG.		
	01	Identifier Code	005 TVO			QAL501		9AL 50e			QAL.503	M.I. 504		
	6	Operational	91040			71940		91940			61040	41010		
TABLE II F-14 SOLID STATE POWER CONTROLLERS AND DRIVERS	8	Conventional Devices Being Replaced	P/O Refuel Probe S4 - Fuel mgt penel (707Al)	F/O K8 Dump Relay - Left glove relay box (773A1)	CEC (7.5A) fuel mgt panel - 2DC Ess circuit breaker panel (36A3)	P/O Refuel probe S4 - Fuel Mgt panel */O/A1)	CBG (7.5A) Fuel P/ motive flow ISGL V- 2 DC ess circuit bresk- er panel (36A3)	P/O Probe door switch (6281)	P/O Refuel Probe S4 - fuel mgt penel (707Al)	CBG (7.5A) fuel P/ motive flow ISOL V-2 DC ess circuit breaker panel (36A3)	P/O K1 MLG handle C relay - left glove relay box (773A1)	P/O Master Test Panel (734A1)	CBII (3A) Master Test - 10 DC main circuit breaker panel (36A4)	
ID STATE POWE	7	P.C. Location												
N 1 1 1 1 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2	9	Load Power Dissipation												
P	^	Duty												
	4	Associated Loads	Refuel probe solen- oid selector valve (6218) - SOL-A	(ext all)		Refuel Probe solen- old selector valve	(Ext-Fus)	Reruel Probe sol- enoid selector	SOL-B		Refuel Probe solen- oid selector valve (6218) - SOL-C	Mester Test Panel (734AL) - Go/NO Go lamps	F.O Filot caution advisory indicator (69A1)	
	9	Reting V & I	V = 1 28			V = +28		V = +28 VDC			V = +28 VDC	V = +28 VDC		
	N N	Type of Power Controller	Solenoid Driver			Solenoid Driver		Solenoid Driver			Solenoid	Lanp Driver		
	1	Table Item #	90,			10%		88			503	ż		

FIGURE 41 SHEET 1		Rquetion Description & Motes	Heruel probe solenoid selector valve (G2LS) - SGL-A (ext all) = refuel probe switch SH-all/extd AND busp - not on AND left AND right WGW - not AND combined system pressure - > 450 pat not AND 28VDC Eas DC No. 1 & 2 bus on.	Refuel probe solenoid selector valve (6218) - SGL A (ext-fue) = refuel probe switch Si - fue/extd AND 28VDC No. 1 & 2 bus OM.	Mercel probe solenoid selector valve ((208) - SOL B - inflight refueling probe door - open AMD refuel probe - fus/satd not AMD refuel probe - all/satd not AMD 28VDC ESS DC No. 1 & 2 bus on	Refuel probe solemo! selector valve (62L6) - SG, C = Landing Gear - up AND 28VDC ESS DC No. 1 & 2 bus on	Mester test panel (734A1) GO/NO GO lamps on - lamp test position AND test selector depressed AND 28VDC L main bus on	
21	7	Reference Drawings	IWSFD F1g. 41 Zone 8C, 3A, 2B, 1B	IWSFD F1g. 41 Zone 8C, 3A, 1A	IWSFD F18. 41 Zone BC, BB, 3A, 1A	IWSFD F18. 41 Zone BC, 2A, 1A	IMSED FIG. 41 Zone 2C, 1C	
TABLE III F-14 SOSTEL BOLLFAN BRUATIONS	9	Special Considerations	ESS, No. 1 bus	ESS, No. 1 Bus	ESS, No. 1 Bus	ESS. No. 1 Bus	L. Mein Bus	
TABLE III P-14	5	Bus/Load Management Friority	1	1	-	7		
	4	Solid State Controller List Cross Reference	006	501	506	503	3	
	3	Transducer List Gross Reference	900 100 113 113	172	120 172 173	200	973	
	2	Boolean Equation	QAL500 = QE3173 • [QAS165 • QTIS002 + GIS102] • EF5163]	QAL501 = QES 172	QAL502 = QKS120 • [(QES172)+(QES173)]	QAL503 - @SOS2	MJL 504 = LASO73 • MJS068	
	-	Table Item #	00%	7,	34	503	Ž	

PICURE 42 SHEET 1	13 Conditioning Technique	Solid state	Solid state	Solid state	Solid state	Resistor Divider Adspter
PTOURE 42	12 Associated Boolean Equation	237	237 242 244 277 277 243	238 239 241 241 241	233 233 241 241 241 241 241	238 239 241 241 241 241
	11 Reference Drawings	IWSFD Fig. 42 Zone 7A	IWSPD P1g. 42 Zone 5A	IWSPD Fig. 42 Zone 5A	INSPD Fig. 42 Zone 54	INSFD Fig. 42 Zone 14B
	10 Operational Address	06P36	01P46	O.IPA.T	01P48	71440
	9 Conventional Switches Baing Replaced or Deleted	Speed Brake avitch (7881)	Dump- mv1tch	Puel feed - S2 mailtch	Puel Peed - S2 #vitch	м/л
TRANSDUCERS	8 Associated Loads	Fuel dump malenaid mut-off pulot valve (fuel cell No. 5) (GZIZ)	Fuel Dump Solenoid shut-off pilot valve (Fuel cell No. 5)	a) Feed tank Interconnect aolenoid valve (valc cell No. 3) (£2L5) b) K31 feed tank inter-	lock relay (left glove relay box T73Al) Same as item 166	KGl tank in- terconnect override re- lay (L. glove relay box 773Al)
TABLE I P-14 SOSTEL SIGNAL TRANSDUCERS	7 Present Signal Characteristics	Retracted = ewitched 28VDC Open = "Open"	Dump-on = awitched 28VDC Off = open	Aft - avitched 28VDC Norm - open	Pwd - avitched 28 VDC Norm - open	Dry = multched 28VDC Wet = Open
TABLE I F.	6 Transducer Type	Limit switch	Tougle switch Dump-on = (SFST) awitched 2 Off = open	Toggle switch DPDTCO)	Toggle switch (Pivrco)	N/A (relay con- tacta)
	5 Point of Origin	Art. F5750	Pilots left ver- tical con- sole FS225	Miota left ver- tical con- sole FS25	Filota left ver- tical con-	Right side N/A FSLOO (rel
	ا Signal Source Box Identification	Speed Brake switch (7631) P/O Speed Brake control system	Puel Management Fanel (707Al)	Paci (707A.)	Puel Management Panel (707AL)	Electronic control emplifier (33A18)
	3 Identifier Code	CDS164	QA 8165	4 48166	4 8167	E.168
	2 Signal Name/Punction	Speed brake - retracted	Dumango - on	Puel Peed - Aft	Puel Feed - Pud	Fuel Cell 2 or 5 - Dry
	Table Ite	491	165	99	167	891

SHEET 2	13 Conditioning Technique	Solid state	Solid state
PICURE 1/2 SHEET 2	12 Associated Boolean Equation	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	240 241 250 250 251
	11 Reference Drawings	INSPD Fig. 42 Zone 18	148FD 26m 18
	10 Operational Address	OTF37	06937
	9 Conventional Switches Being Replaced or Deleted	Hight fuel pressure switch (순원)	Left fiel pressure writch (683)
TRANSDUCERS	8 Associated Loads	feed par re- lay KRB1 - Art Forward fuel Forward fuel	KBO - cross feed pur relay KBI - Art forward feed feels glove relay gox (1-fr glove relay gox 773A1) L. Phel press lemp PV pilot cytony indi- cstor panel (69A1)
TABLE I F-14 SCSTEE SIGNAL TRANSDUCERS	7 Present Signal Characteriatics	Closed = switch- KBO - Cross ed 28VDC lay Open = "open" RB1 - Art Porvant follow (L. glove relay Box 773A1) R. Puel press lamp P/O FHIO 41sory 10- 41sor	Closed = mvitch- ed 28VDC Open = "open"
TABLE	6 Trensducer Type	Pressure switch	Presure svitch
	5 Point of Origin	1,5600	F56,00
	l, Signal Source Box Identification	Right fuel pressure FS600 awitch (62%)	Left fuel pressure avitch (G23)
	3 Identifier Code	691943	ERS170
	2 Signal Name/Punction	Hight fuel pressure switch - closed	Fert fuel Pressure antch - clos- ed
	Table Ite	89	170

13 Conditioning Technique	Solid state		Solid state	Solid state		Resistor Adapter Divider
12 Associated Boolean Equation	244		25 25 25 25 25 25 25 25 25 25 25 25 25 2	£88	74 8 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	248
11 Reference Drawings	IWSFD Fig. 42 Zone 5B	,	INSFD Fig. 42 Zone 5C	INSPD Fig. 42 Zone 5C	INSFD Fig. 42 Zone 1B	INSPD F18. 42 Zone 13B
10 Operational Address	64410		01P50	01P51	02F45	04P18
9 Conventional Switches Being Replaced or Deleted	Wing external trans- fer awitch S3		Refuel probe switch-	Refuel probe switch		N/A
8 Associated Loads	Crossfeed solenoid shutoff pilot valve (GELIO)	Wing motive flow solen- oid transfer valve (cell No. 2) (£211)	N/A	See Item 171	MZ6 - External tank test relay	R fuel low lamp lamp caution ad- valory indi- cator panel (69A1)
7 Present Signal Characteriatics	Off = switched 28VDC Off Not = open		Fus/Extd = Switched 28VDC Fus/Extd Not = Open	All/extd = switched 28VDC All/extd not = Open	Fit Gr Up = switched 28VDC Fit Gr Up Not = Open	Low = switched a) Fliot's R first low (No. 2 cell & lamp R, box beam cell F/O Fliots - Low) caution ad viscoy ind Low Not = Open (GgAl)
6 Transducer Type	Toggle switch (DFDTCO- menuel - sol- enoid driven)		Toggle switch (DPDT)	Toggle switch (DFDF)	12 position rotary switch with- Depress test function	F3395 tast switch- ing
5 Point of Origin	Hlots left ver- tical con- sole FW225		Filot's left ver- tical con- sole FS225	Pilot's left ver- tical con- sole FS225	Filot's Right side console FS225	F3395
l, Signal Source Box Identification	Wing external trans fer switch S3 P/O fuel mensgement panel (707A1)		Puel management panel (707Al) switch S4	Fuel management penel (707Al) switch S4	Mater Test Panel (734A1)	R, electronic con- trol suplifier (3342)
3 Identifier Code	th tab		9ES172	QES173	PUSI74	EJS175
2 Signal Name/Function	Wing/Ext trans-		Refuel probe Fus/Extd	Refuel prote - All/extd	Master Test - Fit. Gr. Up.	Hight fuel low caution advi- sory
Table Item#	ıλı		172	173	1/4	175
	Signal Identifier Signal Source Foirt of Transducer Present Signal Associated Name/Function Code Box Identification Origin Type Characteristics Loads Replaced or Deleted Address Bring Register Recent Recent Associated Solutions Drawings Replaced or Deleted Address Required Replaced Address Required Replaced Or Deleted Address Replaced Or Deleted Address Replaced Or Deleted Address Replaced Or Deleted Rep	Signal Identifier Signal Source Foint of Transducer Present Signal Name/Function Code Box Identification Origin Type Characteristics Loads Replaced or Deleted Switches Reing Address Pravings Replaced or Deleted Address Particular Present Signal Source FREZ)	Signal Identifier Signal Source Foint of Transducer Present Signal Maschuction Code Box Identification Origin Type Characteristics Loads Replaced or Deleted Solitones Being Address Branch Between Replaced or Deleted Address Branch Box Identification Origin Insurance Code Box Identification Origin Insurance Code Solitones Address Branch Signal Original Consistence of Ming external trans-Prior of Transducer Code Solitones Address Branch Signal Original Consistency of Ming external trans-Prior of Transducer Code Solitones Address Branch Signal Original Code Solitones Address Branch Signal Branch Solitones Address Branch Solitones Ad	Signal Scarce Signal Source	Res. Place and the state of Signal Source (Signal S	

13 Conditioning Technique	Restator Divider Adapter	Resistor Divider Adapter	Solid state
12 Associated Boolean Equation	246	8	2.54
11 Reference Drawings	IWSPD P.G. 4 Zone 13B	INSFD F18. 4 Zone 16	1WSFD F1g. 42 Zone 5C
10 Operational Address	6419	94420	02P4.7
9 Conventional Switches Being Replaced or Deleted	н/ А	м/м	Quantity select
8 Associated Loads	b) NFO - Ruel low P/O NFO's cantion and viscy indi- cettor panel (69AZ) a) Filot's I. Nel low lamp P/O Filots cattor panel (69AL) b) NFO - Filots cettor panel (69AL) b) NFO - viscy indi- cettor panel (69AL) (69AZ)	Pilot's bingo - ceution lamp P/O pilots ceution ad- visory indi- cetor panel (69A)	Signal date converter (33A1)
7 Present Signal Characteristics	Low = switched 289uc (No. 5 cell and L. box beam cell - low Low Not = open	Bingo = svitched 28VDC Bingo Not = open	Ext = Switched 28VIX Ext. Not = Open
6 Transducer Type	Relay contact awitching	Relay contact switching	Nocker switch (DPDTCO Spring load- ed center return)
5 Point of Origin	Right side FS290	Pilots Hight knee panel FW225	4 0
ly Signal Source Box Identification	L. electronic con- trol amplifier (3344)	Filot fuel quantity indicator (33PL)	Quantity select Filot's switch - 55 left vert FV Vert PV Nel management cal conspanel (707A1) and FEE
3 Identifier Code	E13176	EUSIT7	EJS178
2 Signal Name/Function	Lert Puel Low caution advis- ory	Bingo	Quantity select - Ext
Table Iten #	176 (cont.d)	π1	178
	2 3 4 4 5 6 7 8 8 Conventional Identification Origin Type Characteristics Loads Replaced or Deleted Address Drawings Required Replaced or Deleted Address Drawings Deleted Drawings Drawings Deleted Drawings D	Hame/Pluction Code Bax Identification Origin Point of Theractured Fluctuation of Type Characteristics	Signat Code Law Law Locate Locate

SHEET	13 Conditioning Technique	Solid state	Solid state	Solid state	By vider Adapter
FIGURE 46 SHEET 2	12 Associated Boolean Equation	858 829	277 444	277 244	277
	11 Reference Drawings	INSPD Fig. 42 Zone 5C	IMSPD Fig. 42 Zone 5B	INSPD Fig. 42 Zone 5B	INSED FIG. 42 Zone 14C
	10 Operational Address	97410	01P53	45410	04450
	9 Conventional Switches Being Replaced or Deleted	Quentity select	Wing external trans- fer avitch - 53	Wing external transfer awitch - 83	N/N
	8 Associated Loads	Signal data converter (33A1)	Wing motive flow solen- old transfer valve (cell No. 2) (GELL)	Wing motive filow solen- old transfer valve (cell No. 2) (6211)	KKB3 - R & L. Wing trans- for regions (L. glove (L. glove 773A1)
	Tresent Signal Characteristics	Wing = switched 28VDC Wing not = open	Oride - switched 28VDC Oride Not - Open	Toggle switch Auto - Switched (DWTNCO man- 28VDC ual solemoid driven) Auto Mot = open driven)	Wet = Switched 28VDC Dry - Open
	6 Transducer Type	Rocker Switch (DPDTCO spring load- ed center return)	Toggle switch (DPDTCO Manuel solen- oid driven)	Toggle switch (DEDTCO men- ual solenoid driven)	tacta
	5 Point of Origin	Filot's left ver- tical con- acles FE225	Hlot's left ver- tical con- sole FE25	Filot's left ver- tical con- sole FW25	Night side Relay con-
	ly Signal Source Box Identification	Quantity select switch - S5 P/O Pael Wangement Panel (707A1)	Wing external trans. Pilot's Toggle switch for Switch - 53 left ver. (DFTVA) tion con-bannal sole FEGES old driven) yanel (707A1)	Wing External Pilot's Toggle Transfer Switch -53 left ver [Update Titos Con- usl soil F/O Nel Menagement soie FEE25 driven) Fanel (TOTAl)	Electronic control emplifier (ÉAlo)
	3 Identifier Code	EJS179	64 3188	648189	L 18190
	Signal Name/Punction	Quantity Select - wing	Wing/Ext Trens- Oride	Wing/Ext Trens - Auto	L and R Wing Low Level Sen- aors - Wet
	Table Ites	179	8	186	95

	_														
FIGURE 42 SHEET 1	ส	Associated Boolean Equations	236	237		238		239		540					
Ĭ.	п	Reference Drawings	IWSFD F1g. 42 Zone 15A, 1A	IWSFD F1g. 42 Zone 7B, 7A 4A, 5A, Al		IWSFD FIR. 42 Zone GA, 6B	4	IWSFD FIG. 42 Zone 7C, 7B,	4 \$	IWSFD FIR. 42	3A, 2A, 1B				
	or	Identifier Code	9हरात्त्र	QAL237		QAL 238		QAL 239		QALZILO					
	6	Operational	20850	08050		08451		08452		08053					
TABLE II F-14 SOLID STATE POWER CONTROLLERS AND DRIVERS	80	Conventional Devices Being Replaced	CB14(5A Puel Qty Ind AC (36A2)	CB3(7,5A) Puel/Feed Dump (36A3) P/O NZO MLG safety M	P/o K88 Nose Kneel (Left glove relay box 773Al)	CB3(7.5) Fuel/Feed Dump (36A3)	P/O KG1 Tank Interconnect Override Relay (Left glove relay box 773A)	CB56 (5A) Fuel vent valve (36A2)	P/O K31 Feed Tank Inter- lock relay (left glove relay box 773A1)	CB3(7,5A) Fuel feed dump (36A3)	P/O K31 - Feed tank interlock relay	P/O K81 - Aft forward fuel feed relay	P/O KBO - Cross feed power relay (L. glove relay box	77341) CB8 (3A) Fuel pressure advisory (36A2)	
ID STATE POWER	1	P.C. Location													
ा है। जिल्ला	9	Load Power Dissipation													
A	5	Duty	100%												
	•	Associated Loads	Signal Data Converter (33A1)	Puel Dump Solenoid Shutoff pilot valve (fuel cell No. 5) (6212)		Feed Tank Inter- connect Solenoid	No. 3) (6215)	a) Edght vent solen- oid valve (62111)	b) Left vent solen- oid valve (62112)	Fuselage motive	(cell No. 2)				
		Reting V & I	V-115VAC	V-28VDC		V=28VDC		V=28VDC I=5A		V=28VDC					
	a	Type of Power Controller	AC - 1 Pole	DC - 1 Pole		DC - 1 Pole		DC - 1 Pole		DC - 1 Pole					
	-	Table Ites #	236	237		238		239	,	240					
			-				Color	10000	-						

-									-					
a -	Associated Boolean Equations	243					348				243			
=	Reference Drewings	IWSPD P1g, 42 Zone 6B, 5B 3A, 2A, 1B,	10				IWSFD F1g. 42 Zone 3C, 3A 1B				IWSFD FIR. 42	2A, 1B		
9	Identifier Code	CM 24.1					ONIEHE				QAL243			
٥	Operational	45890					08455				2000			
6 7 8	Conventional Devices Being Replaced	CB3 (7.5A) Fuel feed Dump (36A3)	P/O K31 - Feed tank interlock relay	P/0 KBl - Aft forward fuel feed relay	P/o K80 - Crossfeed power relay (L. glove relay box 773A1)	CBS (3A) Fuel pressure advisory (36A2)	P/O K31 - Feed tank interlock relay (L. glove relay box 773A1)	CB6 (7.5A) Fuel P/ Motive Flow Isolation V (36A3)	P/O K61 - Tank Inter- connect override relay	P/O K8 - Dump relay (L. glove relay box 773al)	CR2 (7.5A) Fuel manage- ment panel (36A3)	P/O K80 - Cross feed Fur relay	P/O K61 - Tank inter- connect override relay (L. glove relay box 773A)	
7	P.C. Location													
9	Load Power Dissipation													
٠	Duty													
4	Associated Loads	Fuselage motive flow solemoid transfer valve aft (cell	No. 5) (6213)				Motive flow isola- tion Valve (fuel cell No. 2) (62L9)				Auxiliary fuel tank Fressure regulator	(818)		
	Reting V & I	V=28VDC					V=28VDC				V=28VDC			
~	Type of Power Controller	DC - 1 Pole					DC - 1 Pole				DC - 1 Pole			
,	Table Item #	241					242				243			

	_												 	
FIGURE 42 SHEET 3	21	Associated Boolean Equations			445				545		546			
Ĕ	n	Reference Drewings	IWSFD F1g. 41 Zone 7B, 6B, 2B, 1B		INSPD PIG. 42 Zone 3B, 2A,	18 % % 18 %			IWSFD Fig. 42 Zone 13, 10		INSPD FIG. 42	166		
	07	Identifier Code			MENO				547178		E.11.246			
	6	Operational			95890				05403		91010			
TABLE II F-14 SOLID STATE POWER CONTROLLERS AND DRIVERS	80	Conventional Devices Being Replaced	P/o K26 Ext Tank Test Helsy - L. Glove relsy box (773A1)	F/O K8 Dump Relay - L. Glove relay box (773A1)	P/O K8 - Dump relay (L. glove relay box 773A1)	CB3 (7.5A) Fuel Manage- ment Panel (36A3)	P/O K29 - M.G Safety N (R. glove relay box 772A1)	P/O K8 - Dump relay (L. glove relay box 773a1)	CB14 (5A) Puel low caution (36A2)		CH13 (5A) Oxygen/bingo ceution (36A2)			
ID STATE POME	7	P.C. Location												
BLE II P-14 SOL	9	Load Power Dissipation												
A	٠	Duty Cycle							100%					
	-	Associated Loads			Crossfeed Solenoid Shutoff Miot Valve (62110)				a) R. Electronic control amplifier (33A2)	b) L. Electronic control amplifier (33A4)	NFO's - Fuel low lamp	P/o NFO's caution advisory indicator panel (69A2A1)		
	3	Reting V & I			V=28VDC				V=28VDC I=5A		V=28VDC			
	N	Type of Power Controller			DC - 1 Pole				DC - 1 Pole		Lamp Driver			
	7	Table Item #	243 (cont'd)		244				245		246			

				4	BLE 11 F-14 SQ	ID STATE KW	TABLE II F.14 SOLID STATE POWER CONTROLLERS AND DRIVERS			M	FIGURE 42 SHEET
-	N	3	,	5	9	1	8	٥	10	п	21
Table Item #	Type of Power Controller	Reting V & I	Associated Loads	Duty Cycle	Load Power Dissipation	P.C. Location	Conventional Devices Being Replaced	Operational	Identifier Code	Reference Drawings	Associated Boolean Equations
247	Lamp Driver	V=28VDC	Filot's - L Fuel Low - Lamp				CB13 (5A) Oxygen/bingo caution (36A2)	91010	EJ1247	IWSFD F18. 42	745
			P/O Filot's caution advisory indicator panel (69A1)							20ne 10, 13	
248	Lamp Driver	V=28VDC	Pilot's - R Fuel Low - Lamp				CB13 (5A) Oxygen/bingo caution (36A2)	71010	EJ1248	IWSFD F18. 42	248
			P/O Pilot's caution advisory indicator penel (69A1)							200e 10, 13, 16A	
24.9	Lamp Driver	V=28VDC	Pilot's - R. Fuel press - Lemp				CBi5 (3A) R. Oil pres- sure advisoty (36A2)	отртв	ЕИ249	IWSFD FIG. 42	549
			P/O Pilot's caution advisory indicator panel (69A1)							2016 1, 10	
8.5	Lamp Driver	v=28VDC	Pilots - L. Fuel press - Lump				CBS (3A) L. Oll pressure advisory (36A2)	61010	EH250	IWSFD F1.8. 42	250
			P/O Pilot's caution advisory indicator panel (69A1)							70ue 1, 10	
251	Lamp Driver	V≈28VDC	Pilot's - Puel Press - lamp				CB45 (3A) R. Fuel pressure advisory (36A2)	011260	EH221	IWSFD FIR. 42	251
			P/o Pilots caution advisory indicator panel (69A1)				CB8 (3A) L. Fuel pressure advisory (36A2)			OT 1, amon	
% %	Lamp Driver	V≈28VDC	Pilot's - Bingo - Lamp				CBI3 (5A) oxygen/bingo caution (36A2)	12010	EJ1252	IWSPD FIG. 42	8X
			P/o Filot's caution advisory indicator panel (69A1)							or 's allow	

1	•											
Part		य	Associated Boolean Equations	253				257	2 %	5%		
Part		п	Reference Drawings	IWSFD Fig. 42 Zone 13C, 1B	IWSFD F1g. 42 Zone 13A, 1B	IWSFD Fig. 42 Zone 14B, 1C	IWSPD PYR. 42 Zone 14A, 5C	IWSPD P18. 42 Zone 14A, 5C	IWSFD F1g. 42 Zone 14A, 5C 18	INSFD FIG. 42 Zone 14B, 2C 1A	IWSFD FIG. 4/2 Zone 13B, 3A 3C, 1A	IWSFD F1g.42 Zone 13A, 3A 3C, 1A
Page of Page Page of Page		10	Identifier Code	EJL 253	EJ1294	EJ12955	E.1.2%	1521257	EJ1258	EJ1259	E18260	E15261
Property		6	Operational	05904	05405	90850	90090	оброт	80000	05qo7	60090	обр10
Pros of Bating Associated Loads Cycle Controller V 2 1 Masociated Loads Cycle Controller (2ALO) DC - 1 Pole V-28VDC Electronic Control 100% DC - 1 Pole V-28VDC Electronic Control 100% Enable Signal Data Convert (33AL) Enable V-28VDC Signal Data Convert (33An) Enable V-28VDC Signal Data Convert (60 Select Switch) Enable V-28VDC Signal Data Convert (33An) Enable V-28VDC Signal Data Convert (60 Select Switch) Enable V-28VDC		•	Conventional Devices Being Replaced	CKE (7.5A) Phel Manage- ment Panel (36A3)	CB53(5A) Fuel Transfer Override (36A2)	CB25 (3A) Ruel Quentity Indicator DC (36A2)	CR25 (3A) Fuel Quantity Indicator DC (36A2)	CHES (3A) Puel Quantity Indicator DC (36A2)	CRS (3A) Puel Quentity Indicator DC (36A2)	CBII (3A) Master Test (36Au)	CBI (3A) Mester Test (36A) Py Kis - Piel low Py Kis - Piel low Perel test relay (1. Glove relay box 773A)	CELL (3A Master Test (36A4) P/O K43 - fuel low level test relay (L. gloverelay box 773A1)
Pros of Bating Associated Loads Cycle Controller V 2 1 Masociated Loads Cycle Controller (2ALO) DC - 1 Pole V-28VDC Electronic Control 100% DC - 1 Pole V-28VDC Electronic Control 100% Enable Signal Data Convert (33AL) Enable V-28VDC Signal Data Convert (33An) Enable V-28VDC Signal Data Convert (60 Select Switch) Enable V-28VDC Signal Data Convert (33An) Enable V-28VDC Signal Data Convert (60 Select Switch) Enable V-28VDC		7	P.C. Location									
Pros of Bating Associated Loads Cycle Controller V 2 1 Masociated Loads Cycle Controller (2ALO) DC - 1 Pole V-28VDC Electronic Control 100% DC - 1 Pole V-28VDC Electronic Control 100% Enable Signal Data Convert (33AL) Enable V-28VDC Signal Data Convert (33An) Enable V-28VDC Signal Data Convert (60 Select Switch) Enable V-28VDC Signal Data Convert (33An) Enable V-28VDC Signal Data Convert (60 Select Switch) Enable V-28VDC		9	Load Power Dissipation									
Type of Reting Controller V + 1 DC - 1 Fole V-28VDC DC - 1 Fole V-28VDC Signal Enable Signal V-28VDC Signal DC - 1 Fole V-28VDC Signal DC - 1 Fole V-28VDC Signal DC - 1 Fole V-28VDC Signal CMD/OFEN Driver		•	Duty Cycle	100%	1001	100\$						
Power Controller Controller Controller Co. 1 Fole v C. 1 Fole v C. 1 Fole v Signal Enable Signal Enable Signal Contopen		-	Associated Loads	Electronic Control Amplifier (62Al0)	Electronic Control Amplifier (33A18)	Signal Deta Converter (28VDC Bit Test)	Signal Data Convert. er (33al) (WG Select avitch)	Signal Data Converter (33A1) (Feed Select Switch)	Signal Data Converter (33A1) (Feed Select switch)	Signal Deta Converter (33al) (28VDC instrument test fuel)	Left electronic control amplifier (33Ak) (finel low level test -GND = Test Enable)	Right electronic control amplifier (33A2) (finel low level test - GMD = test enable
		3	Peting V & I	V=28VDC	v-28vbc	V-28VDC	v=28VDC	V-28VDC	V-28VDC	v=28vbc		
25 25 25 25 25 25 25 25 25 25 25 25 25 2		c,	Type of Power Controller	DC - 1 Pole	DC - 1 Pole	DC - 1 Pole	Enable Signal	Enable Signal	Enable Signal	DC - 1 Pole	GND/OFEN Driver	GND/OPEN Driver
		-	Table Item #	253	\$ 75.	255	556	257	258	5.2	560	261

PICURE 1/2 SHEET 6	21	Associated Boolean Equations	2TT
NO.	п	Reference Drawings	1MSTD FIG. Lone '1B, 4A 5B, 5C, 6C 14A
	01	Identifier Code	QALETT
	6	Operational Address	08457
TABLE II F-14 SOLID STATE POWER CONTROLLERS AND DRIVERS	80	Conventional Devices Being Replaced	CEC (7.5A) Puel management barel (35d3) P/O KB - Dump relay KBB - R/L Wing trens- fer relay box (1eft glove relay box 773A1)
ID STATE POAR	7	P.C. Location	
ME II F-14 801	9	Load Power Dissipation	
a	٠	Duty	
		Associated Loads	Wing motive flow solenoid transfer valve
	3	Pating V & I	Veetuc
	8	Type of Power Controller	DC - 1 Pole
	7	Table Item #	21.1

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PIGUNE 42 SHEET 1		Rquation Description & Notes	Signal data converter 1159AC 48 = 1159AC 48 Inst. Bus energized	Puel dump solenoid pilot valve - energized (26VDC) - Dump-on AND left OH right Mio Velght not on wheels AND apred brake-refracted OR combined system presaure - < 450 psi	Feed tank interconnect solenoid valve (fuel cell No. 3) - energized (28VDC) - fuel feed - Aft OR MD OR fuel cell 2 or 5 - Dry	Night and left vent solenoid valves - energized (28VDC) - fuel feed - Aft OR PMD OR fuel cell 2 or 5 Dry	Fuscings motive flow solemoid transfer valve forward (cell No. 2) - enerlized - fuel feed-aft OH fuel feed-normal (aft-off and MD-off) AND fuel cell 2 and 5- Net AND right OR left fuel pressure switch - closed	Pusclage motive flow solemoid transfer valve aft (cell No. 5) - energized (closed) - fuel feed - PAD (of fuel feed - mormal (PAD-off and Aft - off) AMD fuel cell 2 and 5 - Met AMD right fuel pressure awitch - open AMD left fuel pressure	Motive flow isolation valve solenoid (fuel cell Mo. 2) - seregized (closed) - Their free - Art OR PAD OH fuel cell 2 or 5 - dry OR dusp-on AND cembined system pressure - < 4.50 pai AND left OR right M.G - weight on wheels not
2	7	Reference Dravings	IMSFD F1g. 42 Zone 15A, 1A	IWSFD F1g. 42 2one 7B, 7A, 5A 4A, 1B	INSPD FIG. 42 Zone GA, 5B 14B, 3A, 1B	INSPD F18. 42 Zone 7C, 7B, 3A 5B, 14B	IWSFD FIG. 42 Zone 6B, 5B, 3A, 2A, 1B	INSTO FIG. 42 Zone 68, 58, 3A 2A, 18, 10	14287 Fig. 42
TABLE III P-14 SOCTEL BOGLEAN EQUATIONS	9	Special Considerations	instrument Bus	ESS. No. 2 Bus	ESS, No. 2 Bus	ESS. No. 2 Bus	ESS, No. 2 Bux	ESS. No. 2 Bus	EBS. No. 2 Bun
TABLE III P-14	٠	Bus/Load Management Priority	8	O.	C)	~	Q.	Q.	N
	4	Solid State Controller List Cross Reference	236	237	238	239	240	243	242
	8	Transducer List Cross Reference	N/A	200 201 201 201 201 201 201 201 201 201	166 167 168	166 167 168	166 166 166 166 166	166 168 169 169 170	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
	ચ	Boolean Equation	EJ1236	481237 - 483165 • (CDS164 + <u>EFS163</u>)	QA1238 = QAS166 + QAS167 + EJS168	441239 - 445166 • 445167 • EJS168	9al240 = 9as166 + [<u>qas166 • Qas167</u> • <u>Eis168</u> • (ers169 • Ers170)]	Qaleli = Qasi67 • Qasi67 • Qasi66 • Eisi68 • Ersi69 • Ersi70	фигис - фалеб • фале <i>7</i> - балев • (фалеб - <u>бетате</u>) • (<u>алвог</u> - <u>алете</u>))
	7	Table Item #	236	237	238	239	540	241	545

1										
MOUNE 1/2 SHEET 2	•	Equation Description & Motes	Auxillary fuel tank press regulator - Energized (28VDC) = right GN left fuel pressure switch - closed GN fuel cell 2 or 5 - day GN (damporf GN comb sys pressure - 5 450 FSI GN LAMD N - WON J AND bester test - fit gr up AND test selector - depressed	Crossfeed solenois shutoff pilot valve - energized (2800°) = (damp-off R combined was press - (450 pai off R) = (450 pai	28VDC fuel low caution to the R. and L electronic control amplifier's (33A2 & 33A4) = 28VDC ESS. No. 2 Rus energized	NPO's - low fuel - caution lamp on (28VDC) - cell No. 2 and R. box beam cell - low AND cell No. 5 and L. box beam cell - low	Pilot's - L. fuel low - caution lamp on (28VDC) - cell No. 5 and L. box beam cell - low	Pilot's - R. fuel low - caution lamp on (28VDC) = cell No. 2 and R. box beam cell - low	Pilot's - R. fuel press - caution lamp on (28VDC) - R. fuel pressure switch - closed	
S	7	Reference Drawings	IWSPD F1g. 42 Zone 3C, 3A, 2A, 1B	IMBPD F1g. 42 Zone 3B, 2A, 5B, 5C, 3A, 1B	INSPD F18. 42 Zone 13, 10	IWSFD F1g. 42 Zone 1C, 13 16C	IWSPD F16. 42 Zone 1C, 13 16A	IWSPD F16. 42 Zone 1C, 13 16A	IMSFD F1g. 42 Zone 1, 16	
TABLE III P-14 SCOTEL BOOLEAN EQUATIONS	9	Special Considerations	ESS. No. 2 Rue	ESS. No. 2 Bus	ESS. No. 2 Bus	ESS. No. 2 Bus	ESS. No. 2 Bus	ESS. No. 2 Bus	ESS. No. 2 Bue	
TABLE III P-14 8	•	Bus/Load Management Priority	QI .	α	a	a	a	N	Q	
	_	Solid State Controller List Cross Reference	243	544	245	546	24.7	248	549	
	3	Transducer List Cross Reference	168 169 1770 165 165 174 174 068	900 900 900 900 100 100 100 100 100 100	N/A	175	176	272	169	
	8	Boolean Equation	QALZH3 = EKS169 +EKS170 + EJS 108 + QAS165 + EFS163 +CJS002 = CJS102 •DUS174 = MJS068	QALPIA = QUISIG5 + BERSIG5 + (GROOZ = GROOZ = HISOG8 - GROOZ + HISOG8 - GROOZ + GROOZ + QUISIG8] + (QUISITA = QUISITE)	511245	EJ1246 - EJ8175 + EJ8176	EJ1247 - EJ3176	EJI248 - EJS175	EN249 - EKS169	
	-	Table Item #	243	442	245	546	247	248	546	

(3)

(8)

FIGURE 42 SHEET 3		Equation Description & Notes	Hiot's - L. Puel. Press - ce-tion lamp on (28VDC) . L. fuel pressure switch - closed	Pilot's - fuel press caution lemp on (28VDC) = right OR left fuel pressure switch - closed	Filot's - bingo - caution lamp on (2PVIC) - bingo	28VDC to the electronic control amplifier ((2A10)) - 28VDC ESS. Bus No. 2 energized	28VDC to the electronic control emplifier (33A18) = 26VDC ESS. Bus No. 2 energized	28VDC to the signal deta converter (28VDC Bit test) = 28VDC ESS. No. 2 bus energized	Ning select switch (289DC) = quantity select - wing	Peed select switch (28VIX:) = quantity select - ext OR wing	External melect muitch (28VDc) = quantity select - ext	Instrument test fuel 26VDC to the signal data converter master test - test selector in-fil gr up - position AND test selector depressed AND left AND right MLG Weight on wheels	Left electronic control amplifier - fuel low level test - embled (GMD) = master test - test selector - filt gr up position AMD test selector - depressed AMD left AMD right W.G weight on wimeds	
21	7	heference Drawings	INSFD FIG. 42 Zone 1, 16	IWSFD F1g. 42 Zone 1, 16	IWSPD F1g. 42 Zone 16A, 10	INSPD F1g. 42 Zone 13C, 1B	INSFD Fig. 42 Zone 13A, 1B	INSPD FIG. 42 Zone 14B, 10	IWSFD Fig. 42 Zone 14A, 5C 1B	IWSFD Fig. 42 Zone 14A, 5C 1B	IWSFD F18. 42 Zone 14A, 5C 18	IMSED Fig. 42 Zone 14B, 2C 1A	IWSFD Fig. 42 2one 13B, 2C, 2A, 1A	
TABLE III F-14 SOSTEL BOOLEAN EQUATIONS	9	Special Considerations	ESS. No. 2 Bus	ESS. No. 2 Bus	ESS. No. 2 Bus	ESS, No. 2 Bus	ESS, No. 2 Bus	ESS, No. 2 Bus	ESS. No. 2 Bus	ESS, No. 2 Bus	ESS. No. 2 Bus	Left Main Bus	Left Mein Bus	
TABLE III P-14	2	Bus/Load Management Priority	2	a	c ₂	ď	ď	o,	OJ.	æ	a		E .	
	4	Solid State Controller List Cross Reference	250	251	2%	253	254	255	2%	257	258	259	260	
	8	Transducer List Cross Reference	170	. 071	17.1	N/A	N/A	N/A	179	178 179	178	900 900 901 110	0008 068 102 174	
	2	Boolean Equation	ERL250 - ERS170	ER(25) = ERS169 + ERS170	EJ1252 - EJ1377	W1253	E11254	EJ1255	EJ1256 - EJ8179	1257 = 12378 + 123 179	EJ1258 = EJS178	EJ1259 - DUS174 • MSO68 • (DSO02 • (DS102	EJSE60 - DIST/4 • MISO68 - GISOO2 • GISLO2	
	-	Table Item #	250	251	8%	253	255	255	256	257	258	255	360	

(3)

FIGURE 42 SHEET	80	Equation Description & Mates	Might electronic control amplifier - fuel low level test - enabled (GMD) = master test - test selector fit gr up - position AND test selector - depressed AND left AND right M.G weight on wheels	Hing motive flow molemoid transfer valve (cell No. 2) rein-gized (hintoff) = (dump-off) OR combined ays. press < 4>0 FSI OR Left Alb right NuG - weight probe - ext/all Alb L and R ting low level sembors - vet) OR wing/ext Trans orde OR (wing/ext trans- off Alb refuel probe - fus/extd) Value of the probe - fus/extd) Value of Alb refuel probe - fus/extd
21	1	Reference Drawings	IMSFD F18. 42 Zone 13A, 2C 2A, 1A	Lorse Pag. 42
TABLE III F-14 SOSTEL BOLLEAN BOLATIONS	9	Special Considerations	Left Main Bus	ЕЗЗ. 16. 2 Выв
TABLE III F-14	2	Bus/Load Management Priority	m.	α
	4	Solid State Controller List Cross Reference	261	277
	9	Transducer List Cross Reference	7/LT 2005 8990 0008	000 163 171 173 189 189 189
	~	Boolean Equation	EJSC61 = DUSI74 • MJS068 • CDS002 • CDS102	(4) (4) (4) (4) (4) (4) (4) (4) (4) (4)
	-	Table Item #	261	шг

HEEF 1	13 Conditioning Technique	HESISTOR DIVIDER ADAPTER	SOLID STATE	SOLID STATE	SOLID STATE	SOLID STATE	KYFERAL SIGNAL ADAFTER
FIGURE 43 SHEET 1	Associated Boolean Equation	263 BI	₹	595	*	86.	269 211 212 213 214 215 216 216 216 216 216 216 216 216 216 216
	11 Reference Drawings	IMSPD FIG. 43 20MB 37B NAVAIR 01- FILAAA-2-2-2 005 FIG 2	LWSFD FIG. 43 CONE 31B MAVAIR 01- F14AAA-2-2-5 O10 FIG 4	IMSFD FIG. 43 SONE 31B MAVAIR 01- F14AAA-2-2- OLO FIG 5	IMSED FIG. 43 ZONE 31B MAVAIR 01- F14AAA-2-2-6 O10 FIG 6	IMSFD FIG. 43 ZONE 38B MAVAIR 01- F14AAA-2-2-6 015 FIG 2	IWSFD F1G. 43 43 1000 388 1000
	10 Operational Address	O4P21	03P18	03819	03720	02P48	отрге
	9 Conventional Switches Being Replaced or Deleted	н/А	(790a.)	52- SYS TEST PM. (750A.1)	(790a1)	52 Master test (734a1)	F. W/A
THANSDUCERS	8 Associated Loads	BLEED MANI- POLD 400°F MODULATING VALVE (42L9)	MINDSHIELD POWER CONTH. (40A1)	CONTROLS (71A1, 71A2)	FADAR WARNING SYSTEM	L & R ALAFIN CONTROLS (71A1, 71A2)	1, PTRE LANP P/O ATR COMBA MAREJUVER PANEL (702A1)
TABLE I P-14 SOSTEL SIGNAL THANSDUCENS	7 Present Signal Characteristics	OPEN/+28V	OPEN/+28V	OPEN/28V		OP5N/+28V	оуем/+280
TABLE I P	6 Transducer Type	TEMPERATURE	12 POS HOTARY	12 POS HOTARY	12 POSITION OPEN/28V HOTAKY	12 POSITION ROTARY	N/A
	5 Point of Origin	STARBOARD FS426 BLO WL150	NPO LEFT KNEE PANEL FS300	NFO LEFT KNEE PANEL PS300	NPO LEFT KNPE PANEL FS300	PILOTS RIGHT SIDE CONSOLE FS225	F2220
	ly Signal Source Box Identification	BLEED MANIFOLD 475° OVERTEAP. SMITCH (42A7)	SYSTEM TEST PANEL (790A1)	(790al)	(790A1)	(734A1)	(71A2)
	3 Identifier Code	нсв550	HK3551	FP3552	SNS553	MG3554	* 0.8555
	2 Signal Name/Function	> 475°P	WSHLD HEAT- ON	FIRE SHORT-ON	BLANK PULSE-ON SNS553	FIRE DET-ON	ON AIRM IAND
	1 Table Ites	050	15.	25	553	42.	595

FIGURE 43 SHEET Z	13 Conditioning Technique	EXTERNAL SIGNAL ALAPTER	RESISTOR DIVIDER ADAPTER	RESISTOR DIVIDER ADAPTER	SOLID STATE	SOLID STATE	SOLID STATE	RESISTOR DIVIDER AMPTER
FIGURE 45	12 Associated Boolean Equation	570	573	573 574	575 576 577	567 577	8%	528 529
	11 Reference Drawings		IMSPD FIG 43 20NE 36C MAYAIR 01- P14AAA-2-2-1 006 FIG 1	IMSPD FIG. 43 NAVAIR 01- FIGAA-2-2-4 006 FIG.1	IMSED FIG. 43 401 MAYAIR 01- FILMAA-2-2-1 006 FIG 1	IMSFD. FIG. 43 MAVAIR 01- FIUAAA-2-2-U 006 FIG. 1	INSED FIG. 43 NAVAIR 01- F14AAA-2-2-4 019 FIG 3	INSED FIG. 43 NAVAIR 01- FIGAAA-2-2-9 011 FIG 9
	10 Operational Address	orner	01P55	01P56	96.838	отв38	02P49	17460
	9 Conventional Switches Being Replaced or Deleted	и/А	N/A	N/A	LWER SPEED BRAKE FOS SM (78S1)	UPPER SPEED BRAKE Pos SM (7882)	7 52 - P/O MASTER TEST PANEL (734A1)	N/A
TRANSDUCERS	8 Associated Loads	R FIRE LAMP P/O AIR COMBAT MANEUVER PML (702A1)	SPEED BRACE CONTROL VALVE (54L1)	SPEED BRAKE CONTROL VALVE (54L1)	WHEELS-FLAPS POS IND (78h1)FLAG 9	HOS IND (7841) FLAG 9	LIQUID QUALIT INDICATOR (41M1)	KZ3 ENERG GEN TEST NO. 2 KELAY (RGHT GLOVE RELAY BOX TTZAL)
TABLE I P-14 SOSTEL SIGNAL TRANSDUCERS	7 Present Signal Characteristics	OPEN/+28V	HOLD = 28VIC HOLD = OPEN	EXT = 28VDC EXT = 0PEN	IN = 28VDC IN = 0PEN	OTHER = 28VDC	INST = 28VDC INST = 0PEN	28VIC/OPEN
TABLE I	6 Trensducer Type	N/A	2P3T SWITCH	2P3T SWITCH	SPDT LIMIT SMITCH	SPDF LIMIT SMITCH	12 POSITION ROTARY PUSH TO TEST	CONTACTS
	5 Point of Origin	RIGHT SIDE FS230	PILOTS LEFT SIDE CONSOLE PS225	PILOTS LEFT SIDE CONSOLE FS225	AFT FS740	AFT F3675	PILOT'S SIDE CONSOLE FS225	FORT FS370
	4 Signal Source Box Identification	RIGHT ALAIM CONTROL (71A1)	THROTELE QUADRANT (711A1)	THROTTLE QUADRANT (711A1)	LOWER SPEED BRAKE POSITION SMITCH (78S1)	UPPER SPEED BHAKE POSITION SAITCH (7852)	MASTER TEST PANEL (734A1)	AC THE SALTCH ASSEM (67A2) ASSEM (67A3)
	3 Identifier Code	MG8556	NA3557	NAS558	NASS59	NAS560	DUS 561	NJ SS 62
	2 Signal Name/Punction	R ALAIM LAMP ON	SPD BRAKES- HOLD	SPD BRAKES -	IM SPD BRAKE- IN	UPPER SPD HAKE-OTHER	MASTER TEST -	NO. 1 & NO 2 AC & DC RELAYS ENERGIZED
	Table Ites	35	155	86	655	§.	795	295

13 Conditioning Technique	SOLID STATE	SOLID STATE	SOLID STATE	SOLID STATE	EXTERNAL SIGNAL ADAPTER	SOLID STATE	SOLID STATE	SOLID STATE
12 Associated Boolean Equation	\$82 \$83 \$84	578 579 585	578 579	195	787	699	₹	683
11 Reference Drawings	MAVAIR 01- F14AAA-2-2-9 011 FIG 56, 7, 8	MAVAIR 01- F14AAA-2-2-9 011 FIG 9	NAVAIR 01- F14AAA-2-2-9 011 FIG 10	NAVAIR 01- F14AAA-2-2-9 011 FIG 11	NAVAIR 01- F14AAA-2-2-9 011 FIG 11	NAVAIR 01- F14AAA-2-2-3 00500 FIG 2	NAVAIR 01- F14AAA-2-2-3 00500 FIG.2	NAVAIR 01- F14AAA-2-2-3 DO500 FIG. 2
Operational Address	02P50	02P51	02P52	02P53	05028	03P22	03P23	45460
9 Conventional Switches Being Replaced or Deleted	52 P/O MASTER TEST PANEL (734A1)	Se P/o master test Panel (734al)	52-P/o master test panel (734a1)	52 - P/O MASTER TEST PANEL (734A1)	N/A	SEAT BUCKET HEIGHT ALUUSTMENT SMITCH (38A2SI)	SEAT BUCKET HEIGHT ADJUSTMENT SMITCH (38A2SI)	SEAT BUCKET HEIGHT ADUSTNERT SAITCH (26A1SI)
Associated Loads	SEE REF DAGS	>	P/O MACH COVER CONTROL UNIT	TEST SIGNAL AIR DATA COM	TEST SIGNAL ADC		NFO EJECTION SEAT (38A2) MJ MOTOR	FILOT ELECTION SEAT (36A1)
Present Signal Characteristics	OPEN/+28VDC		OPEN/28VDC	OPEN/28VIC	0FEN/+28v	9	IMN = SMITCHED 115VAC ØB OFF = OPEN	UP = SMITCHED 115VAC ØB OFF = OFEN
6 Transducer Type	12 POSITION HOTORY SMITCH WITH PUSH-TEST	12 POSITION ROTARY SMITCH WITH PUSH-TEST	12 POSITION ROTARY SWITCH WITH PUSH-TEST	12 FOSITION ROTARY SMITCH WITH FUSH-TEST	ENABLE	TOGGLE SALTCH	1 PDT TOGGLE . SALTCH	1 PUT TVOGIE SAITCH
Soint of Origin	PILOTS RIGHT SIDE CONSOLE FS225	PILOTS RIGHT SIDE CONSOLE PS225	PILOT'S RIGHT SIDE CONSOLE FS225	PILOT'S RIGHT SIDE CONSOLE PS225	P3400	NPO EJECTION SEAT (38A2) FS300	NFO EJECTION SEAT (38A2) F3300	PILOT EJECTION SEAT (38A1)
ly Signal Source Box Identification	(734AL)	(734al)	(734A1)	MASTER TEST PANEL (734A1)	ADC(0541)	SEAT BUCKET HEIGHT ADJUSTMENT SMITCH (38A2SI)	SEAT BUCKET HEIGHT ADJUSTMENT SMITCH (36A2SI)	SEAT BUCKET HEIGHT ADUSTNEHT SATTCH (36A1S1)
3 Identifier Code	M 3563	M.S564	M3565	M3566	NJ 5567	WP3568	WFS569	WF3570
2 Signel Meme/Punction	OHC	EMENS GEN	MACH LEV	WGSWP	TEST INITIATE ON	NFO SEAT HEIGHT - UP	NPO SEAT HEIGHT	HEIGHT - UP
Table ite	93	\$	\$65	9 <u>x</u>	28	**	696	570
	2 3 4 4 Associated Signal Source Point of Trunsducer Present Signal Source Box Identification Origin Type Characteristics Loads Replaced or Deleted Address Present Signal Source Point of Trunsducer Present Signal Address Box Identification Origin Type Characteristics Loads Replaced or Deleted Address Present Signal Address Present Signal Address Present Signal Address Present Signal Source Tages Present Signal Address Present Signal Address Present Signal Address Present Signal Address Present Signal Source Present Signal Address Present Signal Address Present Signal Source Present Signal Source Present Signal Source Present Signal Source Present Signal Address Present Signal Addr	Signal Source Signal Source Point of Transducer Present Signal Source Point of Transducer Present Signal Source Point of Transducer Present Signal Source Point of Transducer Point of Tra	Signal Gode Signal Source Point of Transducer Present Signal Associated Soutches Being Soutc	Signal Survey Signal Source Point of Transducer Present Signal Associated Solutional Bearing Bearing	Signal Good Good	State Signal Source Signal Source Code State Signal Source Code State Signal Source Code State State	Sage Sage	Second S

+ 133	13 Conditioning Technique	SOLID STATE	RESISTOR DIVIDER ADAPTER	SOLID STATE	EXTERNAL SIGNAL ADAPTER	EXTERNAL SIGNAL ADAPPER	SIGNAL SIGNAL ADAPTER	XTERNAL SIGNAL ADAPTER	EXTERNAL SIGNAL ADAPTER
FIGURE 43 SHEET 4	Associated Co	065	560 RES 591 DIV	98	ST9 EXT	579 EXT SIG SIG	578 EXT	578 EXT SI AD	579 EX
	11 Reference Drawings	NAVAIR 01- F14AAA-2-2-) CO5CO FIG 2	NAVAIR 01- F14AAA-2-2-3 OO4 FIG2	INSED FIG. 1,3 NAVAIR 01- FLAAA-2-2-6 015 FIG. 2	NAVAIR 01- F14AAA-2-2-9 011 FIG. 10	NAVAIR 01- F14AAA-2-2-9 011 FIG 10	NAVAIR 01- F14AAA-2-2-9 511 FIG. 10	MAVAIR 01- F14AAA-2-2-9 D11 FIG. 10	MAVAIR 01- F14AAA-2-2-9 D11 FIG. 10
	10 Operational Address	03P25.	03P26	03827	62050	05030	05031	отпев	62012.0
	9 Conventional Switches Being Replaced or Deleted	SEAT BUCKET HEIGHT ADJUSTMENT SMITCH (38A1S1)	N/A	SYSTEM TST - SYSTEM FMR PANEL (190AL) 52 - ROTARY SMITCH	N/A	N/A	N/A	N/A	P/A
TRANSDUCERS	B Associated Loads	ELECTION SEAT (38A1) M1 MOTOR	PILOT EJECT CMD INDICATO (LANDING GEAR CONTROL PANEL)	a) LEFT ALAM CONTROL (77A.2.) b) RIGHT AAARM CONTROL (71A.1) (71A.1) ET BE SHORT TEST SHORT TEST	NO-GO LAMP P/O MASTER TEST PANEL (734A1)	NO-GO LAMP P/O MASTER TEST PANEL (734A1)	GO LAMP P/O MASTER TEST PANEL (734A1)	GO LAMP P/O MASTER TEST PANEL	NC-GO LAND
TABLE I P-14 SOSTEL SIGNAL TRANSDUCERS	7 Fresent Signal Characteristics	DAN-SMITCHED 115VAC ØB OPF = OPEN	PILOT = SMITCHED FILOT EJECT ZGWUC MCO = SMITCHED (LANDING ZGWUC GRAR OOFFROI	SALTCHED 28VDC	28VDC/OPEN	28VDC/OPEN	28VDC/OPEN	28VDC/OPEN	28VLC/OPEN
TABLE I P.	6 Transducer Type	1 PDT TOGGLE SMITCH	1 PDT HANDLE ACTUATED SALTCH	9 POSITION ROTARY SAITCH	N/A	N/A	N/A	N/A	N/A
	5 Point of Origin	PILOT EJECTION SEAT (38A1) FS240	NPO LEFT SIDE CONSOLE PS320	NFO LEFT KNEE PANEL PS300	FS710	Port FS710	PORT F3710	STARBOARD FS550	STARBOARD FS550
	Manuel Source Source Box Identification	SEAT BUCKET HEIGHT ADVUSTBENT SMITCH (38A1SI)	ELECT NODE SELECTOR NPO LEFT SMITCH (7083) SIDE P/O ELECT CHD CONSOLE PANEL PS 220	SYS. TEST-SYS PUR FANEL (1750A.)	MACH LEVER CONTROL UNIT (46A1)	mach lever control unit (46a1)	NACH LEVER CONTROL UNIT (46A1)	AUX PUEL TANK AIR PRESSURE SAITCH (62.95)	AUX FUEL TANK AIR PRESSURE SAITCH (6235)
	3 Identifier Code	WF3571	WF9572	M03573	PUS574	DUS575	57.52M	DE3577	DES578
	2 Signal Name/Punction	PILOT SEAT HEIGHT-DOWN	SELECTOR-PILOT	SELECTED	FAULT SIGNAL - DUS574 LEFT	FAULT SIGNAL- KIGHT	Go SIGNAL	AIR PHESS 210.5 PSIG	AIR PRESS 46.5 PSIG
	Table Ite	11/5	215	873	574	575	576	1778	578

PLOURE 45 SHEET 5	13 Conditioning Technique	SOLID STATE
PIGURE 45	12 Associated Boolean Equation	
	11 Reference Drawings	Lyspo Fig.
	10 Operational Address	92460
	9 Conventional Switches Baing Meplaced or Deleted	INST SMITCH - 56 SYS TEST SYS THR PAREL (199A1)
TRANSDUCERS	8 Associated Loads	1159AC & SECVAC INSTRINGATION BUS
TABLE I P-14 SOSTEL SIGNAL TRANSDUCERS	7 Present Signal Characteristics	ON = SMITCHED 119MC/ZGNAC OPP = OPEN
TABLE I	fransducer Type	MITCH SMITCH
	5 Point of Origin	NPO LEFT KNREE FANEL F8300
	Signal Source Box Identification	575 (755A1)
	3 Identifier Code	MRT
	2 Signal Nume/Punction	INST - 08
	Isble Ites	ज्य

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TIONE IS SHEET	12	Associated Boolean Equations	655	095	761	295	%	48	%
	п	Reference Drawings	IMSED FIG. 43 ZONE 18C MAVAIR 01- FILMAA-2-2-3 OOS FIG. 2	IWSPD FIG. 43 ZONE 38C NAVAIR 01- F14AAA-2-2-3 OO4 FIG. 2	IMSFD FIG. 43 ZONE 25C NAVAIR 01- F14AAA-2-2-2 019 FIG. 2	IMSPD FIG. 43 ZONE 32B NAVAIR 01- F14AAA-2-2-2 019 FIG. 2	IMSED FIG. 43 20NE 37B NAVAIR 01- FILAAA-2-2-2 005 FIG. 2	IMSED FIG. 43 20ME 31B MAVAIR 01- F14AAA-2-2-5 010 FIG. 4	INSED FIG. 43 ZONE 31B MAYAIR 01- FILMAA-2-2-5 010 FIG. 5
	10	Identifier Code	655TAN	WPL560	XA15/61	ми.562	HCL563	HKT1.564	PP1.565
	•	Operational	oren	onno .	07022	01023	06405	02000	OFR30
THE TAIL STATE STATE CHEEK CONTRACTORS AND DRIVERS		Conventional Devices Being Replaced	CBT-ACM LIVSEAT ALM/STEADY POS LIT P/O 7 AC R MAIN CINCUIT BREAKER PAREL (35AL)	CB34-CAN/LAD CAUTION EJECT CHO IND P/O 8 DC ESS 2 CICT BREAKER PAMEL (36A2)	CB13-OXY QTY IND P/O 5 AC ESS 2 ØA CKT BREAKER PANEL (35A2)	CB11-WASTER TEST (36A4) MASTER TEST 34 P/O MASTER TEST PANEL (734A1)	CB42(5A) CABIN PRESS (36A2) BLEED MANIPOLD 475°F OVERTIMP SM (42A7)	CB22(5A) GND TEST/MACH LVR (36A4) LVR (36A4) RV RVB (772A1) S1, 54, 52 - SYSTEM TEST PIL (790A1)	CB2-GND TEST/MACH LIN BIT (36A) KIO MG SAFETY A RIV REB (TTST) 51, 92, 94 - SYTEM TEST PRL (790A1)
and aims in	7	P.C. Location							
NO 57-1 17 WILL	•	Load Power Dissipation							
4	•	Duty			1000				
	•	Associated Loads	NFO SEAT BUCKET HEIGHT ADJUSTMENT MOTOR MI (38A2) VP PHASE	EJECT COMMAND INDICATOR (70M1) PILOTS LANDING GEAR CONTROL PAMEL	LIQUID QUANTITY INDICATOR (4ML) (POWER SOURCE)	HELAY COIL IN LIQUID QUANTITY INDICATOR (4.1ML)	BLEED MANIFOLD MODULATING VALVE (421.9)	VINDSHIELD FOWER CONTROL (40A1)	(71A), 71A2)
		Pating V & I	V-115VAC ØB	v-28vic	V-115VAC	V= +28VDC	V= +28VIC	V= +28VDC	V= +28VDC
	8	Type of Power Controller	AC - 1 POLE	LAMP DRIVER	AC - 1 POLE	RELAY DRIVER	SOLENOID	DC - 1 POLE	DC - 1 FOLE
	7	Table Ites	655	995	78	295	563	35	â

PLOURE 13 SHEET 2	21	Associated Boolean Equations	995		999	695	570	571	572
H	п	Reference Drawings	IMSPD FIG. 43 ZONE 31B MAVAIR 01- F14AAA-2-2-5 O10 FIG. 6	IWSFD FIG. 43 ZONE 29C NAVAIR 01- FI4AAA-2-2-6 013 FIG. 2	IMSED FIG. 43 MAYAIR 01- F14AAA-2-2-6 015 FIG. 2	IWSFD FIG. 43 ZONE 38B NAVAIR 01- FIVAAA-2-2-6 015 FIG. 2	IWSFD FIG. 43 ZONE 38B NAVAIR 01- F14AAA-2-2-6 015 FIG. 2	IMSED FIG. 43 ZONE 38B NAVAIR 01- FILMAKA-2-2-6 015 FIG. 2	IMSED FIG. 43 CONE 38B NAVAIR 01- F14AAA-2-2-6 015 FIG. 2
	or .	Identifier Code	SWI566	HEL567	MG1568	6957DM	WGL5.70	PAL571	Pa1572
	6	Operational	07423		42010	Seatto	92010	42070	07025
TABLE II P-14 SOLID STATE POWER CONTROLLERS AND DRIVERS	•	Conventional Devices Being Replaced	CB-2-CHD TEST/MACH LVR BIT (36A4) LVB MLS ARETY A RLY RCHB (TZAL) 51, 52, 54 - SYSTEM TEST FML (790AL)	(35A6)	CB32(5A) GND TEST/MACH LIVR BIT (36A4) P/O KI9 MLG SAFETY A (RIGHT GLOVE RELAY BOX 772A1)	P/O KIU-WARN LT TEST (RIGHT GLOVE RELAY BOX 772A1) CB3-L FTRE DET LT (36A2)	CB32-R. FIRE DET LT (36A2) P/O KI4-WANN LT TEST (RIGHT GLOVE RELAY BOX 772A1)	(36A2) L FIRE DET LT	CBS R FIRE DET LT (36A2)
ID STATE POAR	-	P.C. Location							
NE 11 P-14 801	•	Load Power Dissipation							
А	•	Duty		1001				100	
	•	Associated Loads	SYSTEM	HTR & HTR CONTROL ICE DETECTOR (39A1) (LEFT INLET DUCT)	a) LEFT ALAIM CONTRO (71A2) D> RIGHT ALAIM CONTROL (71A1) (FIRE DETECTION SHORT TEST SIGNAL)	L, FIRE LAMP P/o AIR COMBAT MANEUVER PNL (702A1)	r, fire land P/o air combat Maneuver Pnl (702al)	+28VDC INPUT & CAUTION (P/O L ALARM CONTROL. (7AZ)	+28VDC INPUT & CAUTION (P/Q) R ALAIM CONTROL (P/Q) R ALAIM CONTROL (P/LA)
	3	Pating V & I	V= +28VDC	V-115VAC	V= +28VDC	V= +28VDC	V= +28VDC	V= +28VDC	V= +28VDC
	o,	Type of Rower Controller	DC - 1 POLE	AC - 1 POLE	ENABLE	LAMP DRIVER	LAMP DRIVER	DC - 1 POLE	DC - 1 POLE
	-	Table Ites #	93	*	%	6 9	570	571	572

(3)

PTOURE 43 SHEET 3	21	Associated Boolean Equations	573	574	575	576	т.	576	579	580
M	п	Reference Drawings	IMSPD FIG. 43 ZONE 36C NAVAIR 01- F14AAA-2-2-4 OOG FIG. 1	IMSFD FIG. 43 NAVAIR 01- F14AAA-2-2-4 006 FIG. 1	IMSPD FIG. 43 ZONE 40B F14AAA-2-2-4 OOG FIG. 1	IMSED FIG. 43 NAVAIR 01- FILMAA-2-2-4 006 FIG. 1	IWSFD FIG. 43 NAVAIR 01- F14AAA-2-2-4 OOG FIG. 2	MAVAIR 01- FILAMA-2-2-9 Oll FIG. 3, 9, lo, 13	NAVAIR 01- F14AAA-2-2-9 011 FIG. 3, 9 10, 13	INSED FIG. 43 ZONE 16
	10	Identifier Code	NA1573	NAL574	NAL575	NAL576	NAL577	W1578	DUL579	XA1580
	6	Operational	11433	11934	Patto	82010	62010	отрзо	01091	
TABLE II F-14 SOLID STATE POWER CONTROLLERS AND DRIVERS	80	Conventional Devices Being Replaced	CBT SPBK/P-HOLL TRIM ENABLE (36A3)	CB7(5A) SPBK/P-ROLL TRIM ENABLE (36A3)	CB1-GND HOLL BHEAKING/ SPOTLER POS IND (36A2) UPPER & LOWER SPEED BHAKE POS SM (7831, 7882)	CBL-GND ROLL BREAKING/ SPOILER POS. IND (36A2)	CB1-GND ROLL BRAKING/ SPOILER POS. IND (36A2)	CB11(3A) MASTER TEST (95A4) CB16(5A) BREIG GEN TEST/L AICS LK UF PHR (96A2) K23, K24 (HGHB)	CB11(3A) MASTER TEST (36A4) CB2(5A) EMENG GEN CONTR (36A4) K23, K24, (HGRB)	CECC(7.5A) INST BUS PLOR (35A) PLOR (3ALA) (RIGHT GLOVE RELAY BOX TRAL)
ID STATE PORE	7	P.C. Location								
अह रा ह-भ अब	9	Load Power Dissipation								
A	2	Duty								
	4	Associated Loads	SOL. NO. 1 SPD BRK CONT VALVE (54L1)	SOL NO. 1 SPD BRK CONT VALVE (54.L.1)	SPED BREAKES-IN INDICATION (78M1)	SPEED BRAKES-PARTIAL INDICATION (78M1)	SPEED BRAKES - FULL INDICATION (78M1)	MASTER TEST PANEL (734A1) (GO LAMP)	hasteh test Panel (734a1) (no go lamp)	115VAC INSTRAMENT BUS
	9	Rating V & I	V= +28VLC	V= +28VDC	V= +28VDC	V= +28VDC	V= +28VIX	V= 28VDC	V= 28VIC	V=115VAC ØB I=7.5A
	8	Type of Power Controller	SOLENOID	SOLENOID	PLAG DRVR	FIAG DRVR	FLAG DRVR	LAMP DRIVER	LAMP DRIVER	AC - 1 POLE
	-	Table Item #	573	574	575	576	те .	578	676	89

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ส	Associated Boolean Equations	581	88 .	£	186	585
n	Reference Drewings	IMSPD FIG. 43 ZONE 16	IMSPD FIG. 43 ZONE 32B NAVAIR 01- F14AAA-2-2-9 011 FIGS 6, 7 8,	IWSFD FIG. 43 ZONE 32B NAVAIR 01- F14AAA-2-2-9 011 FIG 6, 7,	INSED FIG. 43 NAVAIR 01- FIGAM-2-2-9 011 FIG. 6, 7 8	INSFD FIG. 43 MVAIR 01. PLAMAR22.9 011 FIG. 9
or	Identifier Code	халэвт	W1582	MJ583	MJ584	M1585
6	Operational		041008	92090	95059 06029	o3446
80	Conventional Devices Being Replaced	CBI(5A) 26VAC BUS FDR (35A2) P/O KIT MLG SAFETY J (LEFT GLOVE RELAY BOX 773A1)	CB11-MASTER TEST (3644) 34 & S-4MASTER TEST PAREL (734A1) K29 - MAG SAFETY N HGRB (77ZA1)	CB11(3A) MASTER TEST (36A4)	(1964) (1964) (1964) (1964) (1964) (1964) (1964) (1964) (1964) (1964) (1964) (1964) (1964) (1964) (1964) (1964) (1964) (1964) (1964)	CEC(5A) EMENG GEN (196A), (196A), (196A), EESTLACS LK UP PHR (36A2) PLO K24 EMENG GEN TEST NO. 1 RELAY NO. 2 RELAY
7	P.C. Location					
9	Load Power Dissipation					
2	Duty Cycle					
,	Associated Loads	26VAC INST BUS	a) (OBC SELECT 28VIC) PLO THROTTLE CONTYROL COMPUTER (21A1) b) (PLIOT OBC INSCRETE-ON) P/O CSIC (O7A1)	(BIT AND 28VIC) AINCRAFT YAN CONFUTEX (20A1)	a) Pitch Computer (2042) b) Roll Computer (2043) (bit arm - 28vic)	MOTOR GENERATOR SOLENDID CONTROL VALVE (6/L.1)
9	Reting V & I	V= 26VAC	V= +28VDC	V= +28VDC		V= 28VDC
8	Type of Power Controller	AC - 1 POLE	ENABLE DRIVER	ENABLE DRIVER	ЕМАВІЕ БИГУЕН	DC - 1 POLE
-	Table Item #	581	282	>83	±4.	585
	3 4 5 6 7 8 9 10 11	2 3 4 5 6 7 8 9 10 11 Type of Power Reting Pasting Daty Power P.C. Conventional Devices Operational Devices Identifier Parameter Reference Parameter Parameter Code Disappation Location Daty Parameter Code Disappation Disappation	Type of Facting Pace P.C. Conventional Devices P.C. Conventional Devices Pace P.C. Conventional Devices Pace P.C. Conventional Devices Pace Pa	Type of Four Factor Fact	Type of Pating Load P.C. Load P.C. Conventional Devices P.C. Conventional Devices Address Code Dissipation Location Devices Dissipation Dissipation	Type of Rating

PTOURE 12 SHEET 2	21	Associated Boolean Equations	985		998	589	9,56	591	88
Ĕ	11	Reference Drewtings	IWSPD FIG. 43 ZONE 32B NAVAIR 01- F14AAA-2-2-9 Oll FIG. 10	NAVAIR 01- FI4AAA-2-2-9 011 FIG. 11	NAVAIR 01- F14AA-2-2-3 00500 FIG. 2	MAVAIR 01- F14AAA-2-2-3 00500 FIG. 2	NAVAIR 01- F14AAA-2-2-3 00500 FIG. 2	NAVAIR 01- F14AAA-2-2-3 005 FIG. 2	INSED FIG. 43 WAVIN 01- Plyman-2-2-6 Ols Fig. 2
	or .	Identifier Code	9851M	MJ 1587	WPL588	WFL589	WPL590	WF1591	wa1592
	٥	Operational	06030	0,4090	07926	7.20.70	07028	State	•
TABLE II F-14 SOLID STATE POMER CONTROLLERS AND DRIVERS	89	Conventional Devices Being Replaced	CB11-MASTER TEST (36A4) (36A4) PASTER TEST PARE (734A1) K29-ML3 SAFETY N K29-ML3 SAFETY N KGB (772A1)	52, 53-MASTER TEST PANEL (734A1) K12 MLG SAFETY K HGRB (772A1)	CB7(5A) ACM LT/SEAT ADJ/STEADY POS LT (35A1)	CB7(5A) ACM LT/SEAT ALJ/STEADY FOS LT (35A1)	CB7(5A) ACM LT/SEAT ALJ/STEADY POS LT (35A1)	CB34(3A) LAN/LAD CAUTION EJECT CMD IND (36A2)	(Boak)
ID STATE POWE	7	P.C. Location							
BLE II F-14 SOL	9	Load Power Dissipation							
A	5	Duty							
	4	Associated Loads	(TEST INITIATE-ON) MACH LEVER CONTROL UNIT (46A1)	(TEST SIGNAL-ON) ADC (OSA1)	NFO SEAT BUCKET HEIGHT ADJUSTMENT MOTOR-M1 (38A2) DMN PHASE	PILOT SEAT BUCKET HEIGHT ADJUSTMENT MOTOR - MI (38A1) UP PHASE	PILOT SEAT BUCKET HEIGHT ADJUSTMENT MOTOR - M1 (38A1) DMN PHASE	EJECT COMMAND INDICATOR (70A1) PILOTS LANDING GEAR CONTROL PANEL	a) IEFT ALAM CONTRO (TAZ) D KIGHT ALAM CONTROS. (TAZI) STGNAL) STGNAL)
	3	Rating V & I	V- +28VIAC	V= +28VDC	V-115VAC ØB	V=115VAC ØB	V=115VAC ØB	V=28VDC	v-28vik
	8	Type of Power Controller	enable drives v= +28vic	ENABLE DRIVER V= +28VDC	AC - 1 POLE (ASSOCIATED WITH 559	AC - 1 POLE (ASSOCIATED WITH 590)	AC - 1 POLE (ASSOCIATED WITH 589)	LAMP DRIVER	enaele delver v28vdc
	- -	Table Item #	9	587	9995	686	84	165	366

•	Equation Description & Motes	NPO SEAT HEIGHT ALLUSTNENT MOTOR-UP = NPO SEAT HEIGHT - UP	PILOTS EJECT COMMAND INDICATOR (70ML) - PILOT = EJECT MODE SKLETTOR - PILOT	LIQUID QUANTITY INDICATOR (4.1ML) FOMER SOURCE - Embled = 115VAC PHA ESS NO. 2 BUS-ON	RELAY COLL IN LIQUID QUARTITY INDICATOR - Enribized = Test selector - depressed and master test- inst	BLEED WANTPOLD SM - > 475°P. = Bleed waitpold SM - > 475°P.	WINDSHIELD FOWER CONTROL - ON - WENLD HEAT - ON AND TEST - DEPRESSED AND DOOR SAITCH-OPEN AND L AND R MAIN LIG-WOM	R AND I. ALAIN CONTROL - ON - PTRE SHORT-ON AND TEST DEPRESSED AND DOOR SMITCH-OPEN AND I. AND R MAIN LIGNON
7	Reference Drawings	IWSFD FIG. 43 ZONE 18C RAVATH 01- F14AAA-2-2-3 005 FIG. 2	INSED FIG. 43 ZONE 38C NAVAÍR 01- F14AAA-2-2-3 OO4 FIG. 2	IWSFD FIG. 43 ZONE 25C NAVAIR 01- F14AAA-2-2-2 019 FIG. 2	TWSPD FIG. 43 ZONE 32B NAVAIR 01- F14AAA-2-2-2 019 FIG. 2	INSED FIG. 43 ZONE 37B NAVAIR 01- FIGAAA-2-2- OO5 FIG. 2	INSED FIG. 43 ZONE 31B NAVAIR 01- FIGAAA-2-2-5 010 FIG. 4	IMSED FIG. 43 ZONE 31B NAVALR 01- FIGAMA-2-2-5 DIO FIG. 5
9	Special Considerations	a) R. MAIN BUS b) CAN BE A SINGLE CENTER OFF POWER CONTROLLER ASSOCIATED WITH WFL588	a) AFCS BUS b) ASSOCIATE WITH WFL591	INSTRUMENT BUS	L. MAIN BUS	APCS BUS	R. MAIN BUS	H. MAZN BUS
•	Bus/Losd Management Priority	8	OJ.	a	m	Q.	e.	
4	Solid State Controller List Cross Reference	655	995	761	35	263	3	\$
3	Transducer List Cross Reference	895	572	N/A	561	250	900 955 102 572 573	905 905 100 550 550 550 550 550 550 550 550 5
8	Boolean Equation	NFL559 = NFS568	WPL560 = WPS572	хаь;61	Mil562 = MJ3068 • INIS51	нсь563 = нсs550	HKL564 = HK3551 • NJ3055 • NAS054 • GDS002 GDS102	FP1565 • FP352 • M3055 • M8054 • GB3002 • GB3102
-	Table Item #	653	35	261	3	\$63	\$	Ş.
	3 6 7	2 3 kh 5 5014 State Transducer Controller Management Special Special Serence Boolean Equation Reference Peference Priority Considerations Drawings	Solid State Solid State Solid State Solid State Controller Interest Controll	Solid State Bus/Load Special Dravings Special Special Special Special Dravings Special Specia	Solid State Solid State Bus/Load Special Bretance Transducer List Cross Erference Er	Transducer Transducer Solid State Bus/Load Bpecial Bus/Load Bu	Solid State Solid State Bas/Load Special Bas/road Special Bas/road Special Bas/road Special Bas/road Bas/road Special S	Transducer Solid Blate Day Load Bactal Bactalia Bactal

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89	Equation Description & Notes	RAIME WAINING SYSTEM- ON = BLANK PUISE-ON AND TEST-DEPRESSED AND DOOR SALTCH-OFEN AND L AND R WAIN LIG - NOW	ITSVAC PH C ESS NO. 2 - ON	LEPT AND RIGHT ALAIM CONTROL - PINE DETECTION SHORT TEST STORIL (28VLC) = LEPT AND RIGHT MIG-WEIGHT ON WHEELS AND DOOR SMITCH - OPEN AND TEST - DEPRESSED AND PINE SHORT-SELECTED	L. FIRE LAMP-ON = L. ALAIM LAMP-ON OR LTS AND TEST SELECTOR - DEPRESSED	R. FIRE LAND - ON = R. ALARM LAND - ON OR LIS AND YEST SELECTOR - DEPRESSED	+28VDC INDUT & CAUTION - ON = 28VDC ESS NO. 2 BUS - ON	+28VDC INFUT & CAUTION - ON = 28VDC ESS NO. 2 BUS - ON	
7	Reference Drawings	IMSPD FIG. 43 ZONE 31B NAVAIR 01- FILAAA-2-2-5 OLO FIG. 5	IWSFD FIG. 43 ZONE 29C NAVAIR 01- F14AAA-2-2-6 013 FIG. 2	IMSED FIG. 43 NAVAIR 01- F14AAA-2-2-6 015 FIG. 2	IWSFD FIG. 43 20NE 38B NAVAIR 01- FI4AAA-2-2-6 015 FIG. 2		IWSFD FIG. 43 20NE 38B NAVAIR 01- FI4AAA-2-2-6 015 FIG. 2	IWSFD FIG. 43 NAVAIR 01- FIGAAA-2-2-6 015 FIG. 2	
9	Special Considerations	R. MAIN BUS	ESS. NO. 2 BUS	R. MAIN BUS	APCS BUS	AFCS BUS	APCS BUS	APCS BUS	
5	Bus/Load Management Priority	3	a	e e	Q	Q	8	a	
-	Solid State Controller List Cross Reference	995	294	998	569	570	572	572	
3	Transducer List Gross Reference	002 054 055 102 553	N/A	000 054 055 102 573	066 073 555	068 073 556	ν/и	м/м	
8	Boolean Equation	SML566 = SNS553 • MJS055 • MAS054 • GDS002 • GDS102	нец567	WGL568 = GDSOOR • GDSLOZ • WASO54 • WASO573	(LASO73 ⊕ M3SO68)	WGL570 = WGS556 (LASO73 MJS068)	Pal571	PAL572	
7	Pable Item #	900	195	3%	696	570	ns	572	
	3 6 7	2 3 4 5 6 7 Solid State Transducer Controller Bus/Load List Gross Lat Cross Reference Priority Considerations Drawings	Solid State Pranaducer Controller Pass/Load Perence Priority Considerations Perence Priority Considerations Priority Considerations Priority Priority Considerations Priority Priority Considerations Priority Pr	Transducer Controller Bus/Load Special Reference Controller List Cross Bus/Load Special Reference Drawlings Brevence Drawlings Brevence Drawlings Drawling	Transducer Solid State Bas/Load Bas/	Paring	Pacific Controller Parinducer Parinducer Parinducer Controller Parinducer Controller Parinducer Controller Parinducer Controller Parinducer Districtly Priority Considerations Presence Priority Pr	Transducer Solidalist Basiload Special Britanducer Controllist Considerations Considerations Britanducer Controllist Considerations Britanducer Considerations Britanducer Considerations Britanducer Britandu	Packer P

MOUNE 48 SHOET 3	8	Requation Description & Motes	SOL NO. 1 SPDBEK COMT VALVE - ON = LEPT THROTTLE - < MIL PUR AND KIGHT THROTTLE - < MIL PUR AND SPD BHAKES (HOLD OR EXT)	SOL NO. 2 SPUBRK CONT VALVE - ON = SPD BINKES - EXT	Spred brakes - In = Lar spd brake - In	SPEED BIANCES - FARTIAL = UPPER SPD BRANCE - OTHER AND LARSPD BRANCE - NOT IN (OTHER)	SPEED BAAKES - FULL = UPPER SPD BRAKE - FULL <u>And</u> Liar SPD Brake - Not in (Other)	MASTER TEST PAREL - GO LANP ON = TEST SELECTOR - DEPRESSED AND IN 1 - AND 10 2 AC AND DC RELAYS - EMERICAND ON (WACH LEVA AND GO SIGNAL) OR (FLT GR UP AND AIR PRESS > 10.5 PSIG)
2	7	Reference Drawings	IMSPD FIG. 43 ZONE 36C NAVAIR 01- FIVAAA-2-2-4 COO FIG. 1	IWSFD FIG. 43 MAVAIR 01- F14AAA-2-2-4 006 FIG. 1	IWSFD FIG. 43 ZONE 40B NAVAIR 01- F14AAA-2-2-4 006 FIG. 1	IMSPD FIG. 43 ZONE 40B MAVAIR 01- F14AAA-2-2-4 006 FIG. 1	IMSFD FIG. 43 MAVAIR 01- F14AAA-2-2-4 006 FIG. 1	MANAIR 01- PLAMA-2-2-9 01 Pig. 3, 9, 10, 13
TABLE III F-14 SOSTEL BOLLEAN BRUATIONS	9	Special Considerations	ESS. NO. 2 BUS	ESS. NO. 2 BUS	ESS. NO. 2 BUS	ESS. NO. 2 BUS	ESS. NO. 2 BUS	L. MAIN BUS
TABLE III F-14 8	8	Bus/Load Management Priority	8	N.	^Q	N.	O.	m
	,	Solid State Controller List Cross Reference	573	574	575	576	577	578
	3	Transducer List Cross Reference	194 195 557 558	925	559	259 260 260	559	9 068 174 552 553 555 577 777
	~	Boolean Equation	NAL573 - QKS194 • QKS195 • (NAS557 + NAS558)	NAL574 = NAS558	NAL575 = NAS559	NA1576 = NAS560, NAS559	NA1577 = NAS560 • NAS559	puls78 = Misser • [Hisser] • [Misser] • [Mis
	-	Table Item #	573	47.5	\$2	576	rrs .	578

FIGURE 43 SHEET 4		Rquation Description & Notes	MASTER TEST PAREL - NO GO LAND ON = TEST SELECTOR DEPENSES DAID LITE QUE (REERO GEN ALD) NO 1 AND NO 2 - AG AND DO RELAYS - UNENERGIZED) OH (MACH LETA AND LEST OF RIGHT FRUIT SIGNAL) (FLT GR UF AND AS PRESS < 6.5 PSIG)	115VAC PHB INST BUS PWR - OM = INST - ON ON LEPT OF RIGHT ON WHEELS NOT	26VAC INST BUS PMR - ON = INST - ON OR LEPT OR RIGHT MLG-WEIGHT ON WHERIS NOT	THROTTLE CONTROL COMPUTER - ONC SELECT 28VDC AND CSICC- LILLO ONC DISCRETE ON - ONC AND TEST SELECTOR DEPRESSED AND I. AND R M.G WOW	YAN CONFUTER - BIT AND R MIG-WOM = OBC AND I. AND R MIG-WOM	BIT ARM - ON ~ L AND R PIG-NON AND OBC AND (LEPT PARP - > 25° OR KIGHT PARP - > 26° OR KIGHT SAP - > 66°)	HOTOR-GENERATOR SOLEMOID CONTROL VALVE-ENERGIZED (MOTOR CENERATOR-OFF) = MASTER TEST-NOT DEPRESSED OR ENERG GEN-NOT SELECTED AND LEFT IC FWR-OR LINE
24	1	Reference Drawings	MAAIR 01- FLAMA-2-2-9 011 FIG. 3, 9 10, 13	IMSPD FIG. 43 ZONE 16	TWSFD FIG. 43 ZONE 16	IMSPD FIG. 43 ZONE 32B MAVAIR 01- FILAAA-2-2-9 011 FIGS 6, 7,	IMSPD FIG. 43 20NE 32B NAVAIR 01- FIAAA-2-2-9 011 FIG. 6, 7,	IMSPD FIG. 43 20ME 32B MAVAIR 01- FILAAA-2-2-9 011 FIGS 6, 7,	INSED FIG. 43 ZONE 32B MAVAIR 01- FLAAAA-2-2-9 011 FIG. 9
TABLE III F-14 SOCTE, BOCLEAN BOLATIONS	9	Special Considerations	L. MAIN BUS	ESS. NO. 2 BUS	ESS. NO. 2 BUS	L. MAIN BUS	L. MAIN BUS	L. MAIN BUS	L. MAIN BUS
TABLE III P-14	2	Bus/Load Management Priority	e	æ	a	e.		8	6
	4	Solid State Controller List Cross Reference	979	280	581	æ	263	₹,	585
	8	Transducer List Cross Reference	55 55 55 57 57 57 57 57 57 57 57 57 57 5	200 2.172	900 100 277	900 100 563 563	900 106 563	200 217 218 218 228	55 45 65 539 45 65
	8	Boolean Equation	DUIST9 = MISORB • [LIAST] - (MISSR • [MISSE2 - (MISSR) • [LUISTIT • DESSTB]]	XAL580 × XASE77 + GDSOOE + GDSLOE	XAL581 = XAS277 • TD5002 • TD5102	MJ582 = MJS963 • MJS068 • GDS002 • GDSI02	• GD3000 • GD3100	MJ1584 = GD5002 • GD5102 • MJ5563 • (GD50]7 • GD5018 • CK5001	• M3564) • PNS√2
	-	Table Item #	818	980	184	282	263	100	585

1									
FIGURE 43 SHEET 5	•	Equation Description & Motes	TEST INITIATE - ON = TEST SELECTOR - DEPRESSED AND MACH LEV AND LEFT AND RIGHT M.G WEIGHT ON MREETS	TEST STORAL - ON - L AND R MIG-WOM AND TEST SELECTOR-DEPRESSED AND WG SAP AND TEST TWITTATE - ON	NPO SEAT HEIGHT - DAN	Pilot seat bucket height adustabat motor-uo = Pilot seat height - up	PILOT SEAT BUCKET HEIGHT ADJUSTNERT MOTOR - DAN = PILOT SEAT HEIGHT - DAN	PILOTS EJECT COMMAND INDICATOR (7041) - MOG- EJECT MODE SELECTOR - MCO (PILOT NOT)	LEPT <u>AND</u> RIGHT ALAIM CONTROL FIRE TEST SMITCH SIGNAL 20nc = FIRE DET - ON <u>AND</u> TEST SELECTOR DEPRESSED
¥	7	Peference Dravings	TWSFD FIG. 43 ZONE 32B NAVAIR 01. FILAAA-2-2-9 011 FIG 10	NAVAIR 01- F14AA-2-2-9 011 FIG 11	IMSED FIG. 43 MAVAIR 01- FYMAAA-2-2-3 00500 FIG. 2	MAVAIR 01- F14AAA-2-2-3 00500 FIG. 2	INSED FIG. 43 NAVAIR 01- FYAAA-2-2-3 00500 FIG. 2	IMSPD FIG. 43 NAVAIR 01- F14AAA-2-2-3 005 FIG. 2	IWSFD FIG. 43 NAVAIR 01- F14AAA-2-2-6 015 FIG. 2
TABLE III P-14 SOSTEL BOOLEAN EQUATIONS	9	Special Considerations	L. MAIN BUS	L. MAIN BUS	a, R. MAIN BUS b) CAN BE A SINGLE FOLE - DOUBLE THROW CENTER OFF FOWER ASSOCIATED MITH WEL559	a, h. main bus b) can be a single Pole double thhow cepter oper power controller associated with	a) R. MAIN BUS b) CAN BE A SINCIE. POLE DUBLE THROW CENTER OFF FOWER CONTROLLER ASSOCIATED MITH WFL589	a) AFCS BUS b) ASSOCIATED WITH WFL560	L. MAIN BUS
TABLE III P-14 S	•	Bus/Load Management Priority	Е	m	e .	m	e	m	3
	4	Solid State Controller List Cross Reference	986	287	988	685	95	986	5%
	3	Transducer List Cross Reference	000 0668 100 565	288 287 287 287 287 287 287 287 287 287	694	570	ρπ	21.5	068 554
	ca .	Boolean Equation	M1586 = M3068 • • M3565 • GB3002 • GB3102	MJL587 = GDS002 • GDS102 • M3068 • M3566 •M3567	we1588 - wp3569	NP1589 = WP3570	WF1590 = WF3571.	WFL591 = WFS572	wgl592 = wgs554 • wJsoc8
	-	Table Item #	98	787	288	683	865	165	8%

13 Conditioning Technique	SOLID STATE	SOLID STATE	SOLID STATE	SOLID STATE	SOLID STATE	SOLID STATE	SOLID STATE
12 Associated Roolean Equation	951	159	55 59 88 85 55 56 58 58 58 58 58 58 58 58 58 58 58 58 58	9998999	432483	191	991
11 Reference Drewfings	INSPD FIG	INSPD FIG.	INSFD FIG.	INSPD FIG.	INSPD FIG.	INSPD PIG.	INSED FIG.
10 Operational Address	01197	45450	04 P22	Q2P55	95420	02P57	85420
9 Conventional Switches Being Replaced or Deleted	PROBE OUT/LOCKED SMITCH (62S2)	TAXI (52) SMITCH	NIG DOWN AND LOCKED SMITCH (7583)	ANTI-COLLISION LITE SAITCH - 36	MASTER LIGHT STEADY/ FLASH SALTCH - ST	TAIL POSTITION SMITCH 36	TAIL POSITION SMITCH
8 Associated Loads	Probe Lite (60034)	TAXI/LANDING LIGHT (60DS5)	TAXI/LANDING LIGHT (60DS5	ANTI COLLISION LITE	TAIL & WING POSITION LITES	TAIL POSITION LITES	TAIL POSITION LITES
7 Present Signal Characteristics	LOCKED= SMITCHED 115VAC ØB UNLOCKED = OPEN	ON=SWITCHED 115VAC ØA OFF = OPEN	DOWN AND LOCKED- SMITCHED 115VAC ØA UNLOCKED = OPEN	ON-SWITCHED CHOPPED 115VAC OPP = OPEN	STEADY=SMITCHED 115VAC FLASH=SMITCHED CHOPPED 115VAC	BRIGHT=SMITCHED 115VAC	DIM=SWITCHED 115VAC OFF = OPEN
6 Transducer Type	LIMIT SMITCH	SPIN	пит зитен	DPUT	SPDT	TOCGLE SMITCH SPINCO	TOGGLE SMITCH DIM-SMITCHED SEPTICO OFF = OFEN
5 Point of Origin	LEPT SIDE FS220	PILOTS RIGHT SIDE CONSOLE	F5342	PILOTS RIGHT SIDE CONSOLE FS225	PILOTS RIGHT SIDE CONSOLE FS225	PILOTS RIGHT SIDE CONSOLE FS225	PILOTS RIGHT SIDE CONSOLE FS225
ly Signal Source Box Identification	PROBE OUT/LOCKED SWITCH (6282) P/O PROBE HARNESS SWITCH & LIGHT ASSY	(713A1)	NLL DOWN AND LOCKED SMITCH (7583) P/O LANDING GEAR INDICATING SYSTEM	(713a1)	(713A1)	MASTER LITE CONTROL (713A1)	MASTER LISHT CONTROL (713AL)
3 Identifier Code	qF30B3	LR3084	GD3X095	LNSOB6	LN3067	1N3088	L#5089
2 Signal Name/Punction	PROBE OUT/ LOCKED SAITCH - LOCKED	TAXI LITES - ON	LOCKED LOCKED	ANTI-COLLISION LITES-ON	MASTER LITE STEADY	TAIL POSITION BRIGHT	DIM DOSITION
Table Ites	083	1 00	\$6	ğ	280	98	ર્જી
	2 3 4 Associated Signal Source Foint of Transducer Present Signal Associated Satches Baing Address Bound Address Regulation	Signal Identifier Signal Source Point of Transducer Present Signal Identifier Box Identification Origin Type Characteristics Loads Process Original Source Corrections Safron (602) Safron	Signal Source Signal Source Point of Transducer Preent Signal Associated Preent Signal Preent Signal Associated Preent Signal Associated Preent Signal Preent Signal Propre Preent Signal Preen	Signal Gode Box Identification Origin Freent Signal Associated Paint of Trysaducer Present Signal Associated Box Identification Origin Trysaducer Present Signal Associated Box Identification Origin Emphase or Dates Box Identification Origin Identification Origin Identification Origin Identification Origin Identification Origin Identification Origin Identification Identification	Name Particular Signal Source Particular Partic	Signal Goode Particle Signal Goode Particle Signal Signal Goode Particle Part	Signal Code East Code Code

SHEET 2	13 Conditioning Technique	SOLID STATE	SOLID STATE	RESISTOR DIVIDER ADAPTER	ALAPTER
FIGURE 44 SHEET 2	12 Associated Boolean Equation	163	164 165	24253 24253	167
	11 Reference Drawings	TWSFD FIG. 44, 20NE 3A	TWSPD FIG.	INSFD FIG.	ZONE 3C
	10 Operational Address	02P59	озьео	05122	•
	9 Conventional Switches Being Replaced or Deleted	WING POSITION SWITCH 35	WING POSITION SMITCH S5	N/A	м/ А
TRANSDUCERS	8 Associated Loads	WING & SUPP POSITION LITES	WING & SUPP POSITION LITES	KII POSITION LITE (LEFT GLOVE RELAY BOX 773A1)	AULT CHANNEL LITHTENG CONTROL 56A1
TABLE 1 F-14 SOSTEL SIGNAL TRANSDUCERS	7 Present Signal Characteristics	DPDTCO DEF = OPEN OFF = OPEN	DIM-SMITCHED 115VAC OFF = OPEN	SMITCHED 28VDC	ЭМ.ТГСИЕВ 28VDC
TARIET	6 Transducer Type		TOCGLE SMITCH DIM-SMITCHED DPDTCO DPTCO OFF = OFEN	LIMIT SMITCH	15 FOSITION FURGE HIEEL POSITION "O" POSITION "L" POSITION "L" ON-DIM ON-BET
	5 Point of Origin	PILOTS RIGHT SIDE CONSOLE FS225	PILOTS RIGHT SIDS CONSOLE FS225	F3570	106
	4 Signal Source Box Identification	MASTER LIGHT CONTROL (713A1)	MASTER LIGHT CONTROL (713A1)	SMITCH ACTUATOR TRANSMITTER (633) P/O WING SUFFACE CONTROL SYSTEM	(/73A1) (773A1) (773A1) (773A1) (773A1) (773A1)
	3 Identifier Code	1,N3090	LN3091	CKSO%	LF3093
	2 Signal Name/Function	WING POSITION BRIGHT	WING POSITION DIM	WING SWEEP > 25	Possartion Littes LFS093 On
	Table Item	8	160	8	8

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PLOURE 11 SHEET	21	Associated Boolean Equations	158	159	97		छ्य	291	
No.	a	Reference Drewings	INSPD FIG. 44 Zone 2B, 1B	IWSPD FIG. 44 ZONE 4C, 3B LA	IMSPD FIG. 44 ZONE 8C, 7C 38, 2A, 1A		IMSPD FIG. 44 ZONE 11A, 3A 2A, 1A	IMSPD FIG. 44 20NE 11A, 4A 3A, 2A, 1A	INSPD FIG. 44 ZONE 128, 12C 8A, 7A, 4A, 3A, 2A, 1A
	og .	Identifier Code	ML158	LR1359	оўгімі		191711	ылыбе	17NT 76 3
	6	Operational	Oliqei	65010	21010		11935	96511	11023
TABLE II 7-14 SOLID STATE POWER CONTROLLERS AND DRIVERS	0	Conventional Devices Being Replaced	CB16(5A) PROBE LITE (35A4) K21 APPROACH LTS (RIGHT GLOVE RELAY BOX 772A1)	(35A1)	CBLO(7½A) ANTICOLL/SUPPOS/FOS LTS (35A1) AC FLASHER (60DS19)	K22 EXT LT MASTER NO. 1 RIGHT GLOVE RELAY BOX	CBT(5A) ACM LI/SBAT ADJ STEADY POS LT (35A.)	CET(5A) ACH LIT/SEAT ALD STEADY POS LT (35A1)	KII POSITION LITE (LEFT GLOVE RELAY BOX (TJAA) (SBAK)
ID STATE POWE	-	P.C. Location							-
ME II F-14 BO	•	Load Power Dissipation							
A	•	Duty Cycle							
		Associated Loads	PNOBE LIGHT (60DS4)	TAXI/LANDING LITE (60DS5)	a) FUSELAGE ANTI COLLISION LIGHT (60DSL) b) RIGHT VERTICAL FIN ANTICOLLISION	LIGHT (60BS17) c) LEFT VERTICAL FIN ANTICOLLISION LIGHT (60BS18)	TAIL POSITION LITES -	TAIL POSITION LITES DIM	a) IEFT WING POSITION LITE (6008) - BRITE D) MIGHT WING POSITION LITE (600810) BRITE
	•	Ating V & I	valisvac pab I-Sa	V-115VAC ØC I-7½A	V=115VAC I=7½A		v=115VAC ØB I=5A	v=115vac øb I=5a	v=115vac ØB 1=5A
	~	Type of Power Controller	AC - 1 POLE	AC - 1 POLE	AC - 1 POLE		AC - 1 POLE COULD BE DPDT CO CONTROLLER ASSOCIATED WITH 162	AC-1 POLE COULD BE DPLYCO CONTROLLER ASSOCIATED WITH 161	AG- 1 POLE COULD BE DEPTCO CONTROLLER ASSOCIATED WITH 164
	-	Table Ites	851	159	991		191	291	163

	_					
TIONE TO OUT IN	21	Associated Boolean Equations				
	1	Reference Drewings	IMSPD PIG. 44 ZONE 12B, 12C BA, 7A, 4A, 3A, 2A, 1A	INSPD FIG. 44 20NE 9, 8, 7A, 7B, 4A, 3A, 2A, 1A	SAME AS 165	INSPD FIG. 44 SORE 1A, 3C
	o,	Identifier Code	191111	мглб	9911101	Ligitari
	6	Operational	11024	03047	07037 03048	Others
TOTAL THE COLUMN THE CARREST CALLERS AND DRIVERS	•	Conventional Devices Being Replaced	CB33(\$A) EXT LT CONT (36A4) KII - POSITION LIT ([LEPT GLOVE RELAY BOX 773A1)	KB5 STRAIN SUPP POSITION LLT (LET GLOVE RELAY BOX 773A.) CRAO(7A) ARTI COLL./ SUFP POS/POS LTS (35A.)	KB5 STRAIN SUPP FOS LT (LEFT GLOVE RELAY BOX (TATA) SUPP FOS/FOS LTS (35A1)	СВВ(7,4А.) ITS (35A.)
and aine un	7	P.C. Location				
10 000 11 000	9	Load Power Dissipation				
4	~	Nuty Cycle	•			
	•	Associated Loads	a) LEFT WING POSITION LITE (GODSB) DIM b) RIGHT WING POSITION LITE (GODSLD) DIM	a) LEFT UPPER & LLOWER SUPP. POS. LLTE - DIM (60056, 60087) b) RIGHT UPPER & LOWER SUPP. POS. LLTE - DIM (60059, 600811)	A) LEFT UPPER & LLOKER SIPP. POSITION LITE - BRITE (6005, 60057) b) RIGHT UPPER & LOWER SIPP. POSITION LITE - BRITE (60059, 60051)	MULTI CHANNEL LIGHTING CONTROL (56A1)
	9	Peting V & I	V=115VAC ØB I=5A	V-115VAC	V=115VAC	₩.
	~	Type of Power Controller	COULD BE DEVICE CONTROLLER ASSOCIATED WITH 163	AC - 1 POLE COULD HE DEPUTCO CONTROLLER ASSOCIATED WITH 166	AC - 1 POLE COULD BE DPUNCO CONTROLLER ASSOCIATED WITH 165	AC - 1 POLE
	-	Table Item	191	\$91	991	167

FIGURE 44 SHEET 1	•	Rquetion Description & Notes	PROBE LIGHT - ON - THROTFILE QUADBANT EXTERIOR LITE SAITCH IS ON AND THE PROBE OUT/LOCKED SAITCH IS LOCKED	TAXI/LANDING LITE - ON - THEOTILE QUADRANT EXTERIOR LITE SAITEN IS ON AND TAXI LITE SAITCH IS ON AND LOCKED SAITCH IS IN THE DOWN AND LOCKED POSITION	ANTI COLLISION LITES ON - THROTTLE QUADRANT EXTERIOR LITE SAITCH IS ON AND ANTI COLLISION SAITCH ON NOTE 1 ANTI COLLISION LITES ON REQUIRES LITE FIASH AT 30 - 10 FIASHES PER MINUTE	TAIL POSITION LITE BRIGHT STRADT - THOUTILE QUADBART EXTENDIOR LITE SAITCH IS - ON AND TAIL POSITION SAITCH - BRIGHT AND STRADY/FLASH SAITCH-STRADY ON STRADY/FLASH SAITCH-FLASH AND ANTI COLLISION LITE SAITCH - ON	TAIL POSITION LITE BRIGHT FLASH = THROTTLE QUANNET EXTERIOR LITE SAITCH IS-ON AND TAIL POSITION SMITCH-BRIGHT AND STEADY/FLASH SMITCH-FLASH AND ANTI COLLISION LITE SMITCH-OFF HOURE I: HEQUIRES PROCESSER TIDER AT 30 ± 10 FLASHS/MINUTE	TAIL POSITION LITE DIN STEADY = TAIL POSITION LITE DIN STEADY FLASH SWITCH- TAIL POSITION SWITCH - DIM AMD STEADY/FLASH SWITCH- STEADY/FLASH SWITCH-PASH AMD ANTI COLLISION LITE SWITCH-ON	TAIL FOSITION LITE DIM FIASH - WINCH IS - ON AND INTERTILE GALADMATE EXTENDA LILE SAITCH - DA AND TAIL FOSITION SAITCH-DIM AND STRAIN/FIASH SAITCH-PLASH AND ANTI COLLISION LITE SAITCH-OFF	
21	7	Reference Drawings	INSFD FIG. 44 ZONE 2B, 1B	IWSFD FIG. 44 ZONE 4C, 3B, 2A, 1A	IMSFD FIG. 44 ZONE BC, 7C, 3B, 2A, 1A	INSFD FIG. 44 ZONE 11A, 3A, 2A, 1A	SAME AS 161A	SAME AS 161A	SAME AS 161A	
TABLE III F-14 SOSTEL BOLLEAN BOLATIONS	9	Special Considerations	ESS. NO. 2 BUS	R. MAIN BUS	a) R. MAIN BUS b) SEE NOTE 1	R. MAIN BUS	a) R. MAIN BUS b) SEE NOTE 1	R. MAIN BUS	a) R. MAIN BUS b) SEE NOTE 1	
TABLE III P-34 S	•	Bus/Lond Management Priority	ય	E.	m.	m	m	e.	м	
	_	Solid State Controller List Cross Reference	951	159	091	191	161	290 -	797	
	9	Transducer List Cross Reference	048 083	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	990	94.8 98.0 98.0 98.0 98.0 98.0	968 986 759 888	8 88 88 88 88 88 88 88 88 88 88 88 88 8	086. 087 089	
	8	Boolean Equation	4F3083	.н.т.59 = .г.я 50 8 . пряоф8 . пряоф8	LNL160 = LASO48 •		183087 - 183086 • 183087 •183086	<u>INLIEE</u> - <u>INSOB9</u> - IASOHG - INSOB9 - (INSOB7 + INSOB7 - INSOBC)	- 148086 - 148086 - 148086	
	-	Table Item #	158	651	160	161A	1618	162A	162B	

FIGURE 44 SHEET 2		Rquetion Description & Motes	LEFT AND RIGHT WING POSITION LITES-BRITE STRADY- TREOFTLE QUADRAR EXTERIOR LITE SHITCH-ON AND WING PROSITION SMITCH-BRIGHT AND WING SHITCH ACTUATOR TRANSMITENS - 2.5° AND MASTER LITE CONTROL SMITCH- STRADY OR MASTER LITE CONTROL SMITCH-FLASH AND ANTI COLLISION LITE SMITCH-ON	LEPT AND RIGHT WING POSITION LITES - BRITE FLASH - THROTTLE QUADRANT EXTERIOR LITE SAITCH-ON AND WING PROSTIONS MITTCH-BRIGHT, AND WING SAITCH ACTUATOR THANISHTERS - < 25° AND MASTER LITE CONTROL SAITCH FLASH AND COLLISION LITE SAITCH-OFF	LEPT ALD RIGHT WING POSITION LITES-DDM STRADT = MONTHER QUARMER EXTENDED MAD WING POSITION SAITCH-DDA ALD WING SHITCH ACTUATOR SAITCH-DDA ALD WING SHITCH ACTUATOR STRADT SAITCH-STRADT SHITCH-THASH ALD ANTI-COLLISION LITE SHITCH-FLASH ALD ANTI-COLLISION LITE SHITCH-OF SHITCH-FLASH ALD	LEFT AND RIGHT WING POSITION LITES-DDN FASH = PROFITE QUADMUR EXTENDE LITE SHITCH-OM AND VING POSITION SHITCH-DDN AND WING SHITCH ACTUATOR THAN SHITTER = < 25° AND MASTER LITE CONTROL SHITCH- PLASH AND ANTI COLLISION LITE SHITCH-OFF NOTE L: REQUIRES PROCESSOR TIMER AT 30 ± 10 FLASH/ MINUTE	LETT AND RIGHT UPPER AND LOWER SUPPLIBERTARY POSITION THEOTILE QUADANT EXTERIOR LITE SAITCH-ON AND WING POSITION SAITCH-DIN AND RIG DOWN AND LOCKED OR POSITION SAITCH-DIN AND RIG DOWN AND LOCKED OR AND MATTER TRANSMITTER > 25 AND MATTER LITE SAITCH-STRANG QB MASTER LITE SAITCH- FLASH AND ANTI COLLISION LITE SAITCH-ON	LET AND RIGHT UPPER AND LOWER SUPPLIMENTARY POSITION THEOTIES, DOWN AND AND AND AUTHORY THOOTIES, QUADANT EXTENDER LITE SHITCH POSITION STRICK-IDM AND INCH-UNCORED AND SHITCH ACTUATOR TRANSHITTER - > 25° AND WASTER LITE SHITCH FLASH AND ANTI COLLISION LITE SHITCH-OFF MOTE 1: REQUIRES PROCESSOR IDER AT 30 ½ 10 FLASHES/ ALDRE
21	7	Reference Drawings	IMSPD FIG. 44 ZONE 12B, 12C BA, 7A, 4A, 3A 2A, 1A	INSPD PIG, 44 ZONE 12B, 12C BA, 7A, 4A, 3A 2A, 1A	INSPD FIG. 44 ZONE 12B, 12C BA, 7A, 4A, 3A ZA, 1A	INSPD FIG. 44 ZONE 12B, 12C 8A, 7A, 4A, 3A ZA, 1A	INSPD FIG. 44 ZONE 9, 8, 7A, 7B, 4A, 3A, 2A, 1A	INSPD FIG. 44 Zone 9, 8, 74, 78, 44, 34, 24, 14
TABLE III F-14 SOSTEL BOOLEAN EQUATIONS	9	Special Considerations	H. MAIN BUS	a) R. MAIN BUS b) SEE NOTE 1	B. MAIN BUS	a) SEE NOTE 1	R. MAIN BUS	a) SEE NOTE 1
TABLE 111 P-14	٠	Bus/Load Management Priority	8	e .	r	m	£	m
		Solid State Controller List Cross Reference	163	F91	164	191	591	\$91
	e.	Transducer List Cross Reference	980 980 980 980	950 950 950 950 950 950 950 950 950 950	98 68 68 68 68 68 68 68 68 68 68 68 68 68	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	048 086 086 091 092	% % % % % % % % % % % % % % % % % % %
	2	Boolean Equation	INITIGS = <u>LASONB</u> • INITIGS = <u>CRESOF</u> • (LINSOR) • <u>CRESOF</u> • LINSOR) • INITIGS •	LNIJOS - LNSONS - LNS	INIJEG = <u>IASOHB</u> • INSON] • <u>CRSONE</u> • (IASOM) • IASOM) • IASOM)	IMEOST - LASONS - IMEOST - LASONS - IMEOST - LASONS	intlés = insort (Graods + Graods + Craods + Graods + Craods + (Insort + Insort = insort)	180001 - 180001 - 180001 - 1800000 - 180000 - 180000 - 180000 - 180000 - 180000 - 180000 - 1800000 - 180000 - 180000 - 180000 - 180000 - 180000 - 180000 - 1800000 - 180000 - 180000 - 180000 - 180000 - 180000 - 180000 - 1800000 - 180000 - 180000 - 180000 - 180000 - 180000 - 180000 - 1800000 - 180000 - 180000 - 180000 - 180000 - 180000 - 180000 - 1800000 - 180000 - 180000 - 180000 - 180000 - 180000 - 180000 - 1800000 - 180000 - 180000 - 180000 - 180000 - 180000 - 180000 - 18000
	-	Table Item #	A5.34	1638	164A	1648	165A	1658

	_				
PTOURE 14 SHEET 3	8	Equation Description & Notes	LEPT AND KIGHT UPPER AND LOWER SUPPLEMENTARY POSITION INTEG-BRIDGHT STRAINS TEXTERIOR LITE SMITCH-ON AND WING POSITION SMITCH-BRIGHT AND BLG SOON AND LOCKED OR SMITCH-BRIGHT AND BLG SOON SMITCH-BRIGHT AND BLG SOON STRAINSMITTER - > 25 AND MASTER LITE SMITCH-STRAIN OR MASTER LITE SMITCH-STRAIN OR MASTER LITE SMITCH-PIASH MAD ANTI COLLISION LITE SMITCH-ON	LETT AND RIGHT UPPER AND LOWER SUPPLEMENTARY POSITION LITTES BRIDTH FLASA "THEOPTIE QUADANT EXTERIOR LITE SAITCH-ON AND ZING POSITION SAITCH BRIGHT AND MIGHNICORD AND SAITCH ACTUROR TRANSHITTER - > 25° AND MASTER LITE SAITCH FLASH AND ANTI COLLISION LITE SMITCH-OPP NOTE 1: REQUIRES PROCESSON TIMEN AT 30 ± 10 FLASH/MINTE	FORMATION LITES - ON ULT CHANNEL LIGHTING CONTROL-THEOTILE GALDIANT EXTERIOR LITE SALTCH-ON AND POPMATION THANKHEEL SALTCH ON POSITIONS 1 THAN 14 POPMATION THANKHEEL SALTCH ON POSITIONS 1 THAN 14
21	1	Reference Drawings	IMSED FIG. 44 20NE 9, 8, 7A, 7B, 4A, 3A, 2A 1A	INSPD FIG. 44 ZONE 9, 8, 7A, 78, 4A, 3A, 2A, 1A	ZONE 54, 30, 14
TABLE III P-14 SOSTEL BOCLEAN BOUTIONS	9	Special Considerations	R. MAIN BUS	a) R. MAIN BUS b) SEE NOTE 1	R. MAIN BUS
TABLE III P-14	•	Bus/Load Management Priority	œ.	m	m
		Solid State Controller List Cross Reference	166	991	<i>167</i>
	3	Transducer List Cross Reference	846 886 886 886 886 886 890 890	388888	83.8
	N	Boolean Equation	LINITES - LINSONO - (LINSONO - (LINSONO - (LINSONO - (LINSONO - (LINSONO - LINSONO - LINSONO - (LINSONO	14830F - 148390 • 148390 • 148396 • 148396 • 148396	LF8093 - LAS048 •
	-	Thate Item #	166A	9997	167

PIGURE 45 SHEET 1	13 Conditioning Technique	HESI STOR DIVIDER ADAPTER	RESISTOR DAVIDER ADAPTER	RESISTOR DIVIDER ADAPTER	HESISTOR DIVIDER ADAPTER	RESISTOR DIVIDER ADAPTER	RESISTOR DIVIDER ADAPTER
FIGURE 45	12 Associated Boolean Equation	55.5	25 E	531	2007	510 515	530
	11 Reference Drawings	INSPD PIG. 45 20NE 4A, 3A. 1A	INSPD FIG. 45 Zone 3B	INSPD FIG. 45 ZONE 3B	INSPD FIG.	INSPD FIG. NS ZONE BA, 7A, SA	IMSPD FIG. 45 ZONE 7A, 5B
	10 Operational Address	4240	५२८४ १०	04.P26	04.P2.T	95410	серба
	9 Conventional Switches Being Replaced or Deleted	ν/ν	N/A	N/A	N/A	٨/٨	и/л
TRANSDUCERS	8 Associated Londs	NFO INSTR LIGHT CONTROL CHANNEL 7 - P/O MULTI CHANNEL LIGHTING CONTROL (56A1)	NFO WHITE FLOOD LIGHT CONTROL CHANNEL 9 P/O MULTI CHANNEL LIGHTING CONTROL (55A1)	SAME AS 501	NEO RED FLOOD LIGHT CONTROL CHANKEL 10 - P/O MULTI CHANNEL LIGHTING CONTROL (56A1)	ACM PANEL (702A1) ACM PANEL LIGHT CONTROL CHANNEL 2	PILOT INSTRUMENT LIGHT CONTHOL CHANNEL 1
TABLE I P-14 SOSTEL SIGNAL TRANSDUCERS	7 Present Signal Characteristics	open/115vac, 400 Hz βΒ	SF3T - FOGGLE OPEN/115VAC, F/O WHITE 4.00 Hz FLOOD SZ #8	SAME AS 501 ØB	open/115vac, 400 Hz ba, bc	OPEN/115VAC 400 Hz ØB +28VDC/OPEN	OPEN/115VAC 400 Hz ØB
TABLE I	6 Trensducer Type	SPST-P/O INSTR. BHT CONTROL RI	SP.T TOLGLE P/O WHITE FLOOD SE	SAME AS 501	DPUT - P/O CONSOLE LIGHTING CONTROL R2	DPDT - P/O ACM CONTROL R1	SPUT - P/O OPEN/1159AA
	5 Point of Origin	NFO'S RIGHT SIDE CONSOLE PS300	NFO'S RIGHT SIDE CONSOLE FS300	NFO'S RIGHT SIDE CONSOLE FS300	NFO'S RIGHT SIDE CONSOLE FS300	PILOT'S RIGHT SIDE CONSOLE PSC25	PILOTS RIGHT SIDE CONSOLE FS225
	4 Signal Source Box Identification	D/L REPLY-DUR LIGHT CONTROL PAREL (72441)	D/L REPLY-INTR LIGHT CONTROL PAMEL (724A1)	D/L REPLY - INTR LIGHT CONTROL PANEL (724A1)	D/L REPLY - INTR LIGHT CONTROL PANEL (724A1)	MASTER LIGHT CONTROL PANEL (713A1)	MASTER LIGHT CONTROL FANEL (713A1)
	3 Identifier Code	UHS500	ияуол	LHS502	LHS503	LHS504	148505
	2 Signal Neme/Punction	INSTRUMENT LITING-ON RI	WHITE FLOOD -	WHITE FLOOD - BRC	CONSOLE LITING-ON	ACM - ON	INSTRIMENT R3 ON
	Pable Ites	8	ğ	ğ	603	505	ě

11 12 13 13 13 14 15 15 15 15 15 15 15	
Befrance Drewings INSPD FIG. Lose 78, 58 Lose 76, 78 Some 76, 78 Some 84, 74 Some 84, 74 Some 84, 74	
Of the second of	
Corventional Switches Being Replaced or Deleted N/A	
Associated Loads Loads Loads Loads Loads Light CONTROL LIGHT CONTROL C	
TABLE I P-14 SCETTAL SIGNAL TRANSDUCERS 6 6 7 Present Signal Associated Type 11- P/O 115VAC 400 Hz PLOOD LIGHT CONTROL C	
CONSULE IN CONTROL. RA	
Point of Origin	
Signal Source Box Identification MASTER LIGHT CONTROL FANEL (713A1) MASTER LIGHT CONTROL FANEL (713A1) MASTER LIGHT CONTROL FANEL (713A1)	
Identifier Code LHS506 LHS507	
Signal Identi Name/Function Cod WHITE FLOOD - LHSSOG OFF COMSOLE F4 -ON LHSSOG	
That I that #	

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PIGURE 45 SHEET 1	21	Associated Boolean Equations	505	% .	705	3	ŝ	210			
Ĭ.	п	Reference Drewings	INSPD FIG.45 Zone 4a, 3a la	INSPD FIG. 45 ZONE 48, 38 LA	IMSED FIG. 45 ZONE 4B, 3B, 18	INSPD FIG. 45 ZONE 4C, 3B, 1C	INSPD FIG. 45 ZONE 1C	INSPD FIG. 45 ZONE 7A, 5A, 1A			
	10	Identifier Code	SOSMIT	титьоб	LHL507	905-71417	LM.509	LHL510			
	6	Operational	04023	12000	04425	92040	03431	25.00			
TABLE II 7-14 SOLID STATE POWER CONTROLLERS AND DRIVERS	8	Conventional Devices Being Replaced	P/O INSTRINBENT RI - D/L REPLY - INTR LIGHT CONTROL PAREL (724A.) CBS(5A) INST LITS P/O 7 ACR MAIN CINCUIT BREAKER PAREL (35A.)	P/O WHITE FLOOD 52- D/L RELY-LIFE LIGHT CONTROL PAREL (724A1) CRIS(5A) WHITE FLOOD LIT- P/O 7 AC R. MAIN P/O 7 AC R. MAIN CIRCULT BREAKER PANEL (35A1)	P/O CONSOLE R2- D/L REPLY INTC LIGHT CONTROL PAREL (724A.1) CES(5A) NPO CONSOLE LT P/O 7 AC N MAIN CIRCUIT BHEAKER PAREL (35A.1)	P/O CONSGLE RE - DUTROL TRATEL (TQLAT) CONTROL PROEL (TQLAT) CB3 (5A) RED FLOOD LT P/O 4 AC ESS 1 CIRCUT BREAKER PANEL (35A3)	CBIO (SA) UTILITY LT P/O 3AC ESS 2 ØB & C CIRCUT BREAKER PANEL (35A4)	P/O ACM - RI MASTER LIGHT CONTROL FANEL (713AL)	CBT (5A) - ACM LT/SEAT ADJ/STEADY POS LIT	P/O 7AC R MAIN CIRCUIT BREAKER PANEL (35AL)	
ID STATE POWE	7	P.C. Location									
BLE 11 P-14 801	9	Load Power Dissipation									
a	٠	Duty					100%				
	-	Associated Loads	NPO INSTRUMENT LIGHT CONTROL CHANNEL 7 P/O MULTICHANNEL LIGHTING CONTROL (56A1)	V-LISVAC NFO WHITE FLOOD HOO HZ ØB LIGHT CORTHOL CHARMEL 9 F/O MULTICHANNEL LIGHTING CONTROL (56A1)	NFO CONSOLE LIGHT CHANNEL 2 FO MULTICHANNEL LIGHTING CONTHOL (56A1)	NFR RED FLOOD LIGHT CONTROL CHAINEL 10 P/O MULTICHAINEL LIGHTING CONTROL (56AL)	UPILITY/MAP LICHTS TRANSFORMER (56T1)	ACM PAMEL LIGHT CONTROL CHANNEL 2			
	8	Rating V & I	V=115VAC 400 Hz βΒ	v=115vac 400 нг Øв	v=115vac 400 Hz \$A	V=115VAC 400 Hz, ØC	V=115VAC 400 Hz,	V=115VAC 400 HZ, ØB			
	O.	Type of Fower Controller	AC - 1 FOLE	AC - 1 POLE	AC - 1 POLE	AC - 1 POLE	AC- 1 FOLE	AC - 1 POLE			
	-	Table Item #	\$6	8	501	88	\$	910			

	_														
PTOUNE 45 SHEET 2	21	Associated Boolean Equations	11%	512				213			514			\$11.5	
Ĕ	п	Reference Drawings	IMSPD FIG. 4,5 ZONE 7B, 5A, 1A	IWSPD FIG.45	ZONE 7B, 5B, 1A			IWSFD FIG.45 ZONE 7B, 5B, 1B			INSPD FIG.45 ZONE 7C, 58, 1C			IMSFD FIG.45 ZONE 8A, 5A, 1B	
	or	Identifier Code	ги.511	LHL512				LHL513			LHLS14			LHL515	
	6	Operational	75010	86040				62040			04430			03437	
TABLE II F-14 SOLID STATE POWER CONTROLLERS AND DRIVERS	8	Conventional Devices Being Replaced	P/O INSTRUMENT - RB MASTER LIGHT CONTROL PANEL (713A1) CBS (5A) INST LTS	P/O 7AC R MAIN CIRCUIT BREAKER PANEL (35A1) P/O WHITE FLOOD SE	MASTER LIGHT CONTROL PANEL (713A1)	CB15 (5A) WHITE FLOOD LT	P/O 7AC R MAIN CINCULT BHEAKER PANEL (35AL)	P/O CONSOLE R4 MASTER LIGHT CONTROL PANEL (713A1)	CBS(5A) PILOT CONSCLE LT	P/O 7 AC R MAIN CIR- CUIT BREAKER PANEL (35A1)	P/O CONSOLE FA MASTER LIGHT CONTROL PANEL (713A1)	CB 3 (5A) RED FLOOD LT	P/O 4AC ESS 1 CIRCUIT BREAKER PANEL (35A3)	P/O ACM RO MASTER LIGHT CONTROL PANEL (713A1)	CB5 (3A) INS SYNC/ACM FML LTS
ID STATE PORE	- 1	P.C. Location													
१ विकास	9	Load Power Dissipation													
a	5	Duty													
	•	Associated Loads	PILOT INSTRUGENT LIGHT CONTROL CHANNEL 1	PILOT WHITE FLOOD	LIGHT CONTROL CHANNEL 4			PILOT CONSOLE LIGHT CONTROL CHANNEL 3			PILOT RED FLOCD LIGHT CONTROL CHANNEL 6			ACH PANEL (702AL)	
	•	William V	V -115VAC LOO HZ, PB		1,00 HZ,			V=115VAC 400 HZ, ØB			ν=115νAC 400 HZ, φB			v ~26vAC	
	~	Stee of News Controdies	AC - 1 POLE	AC - 1 POLE				AC - 1 POLE			AC - 1 POLE			AC - 1 POLE	
	-	11	H	ä				513			115			5115	

ឌ	Associated Boolean Equations	
#	Reference Drewings	ZONE BA, 1B
og	Identifier Code	7141776
6	Operational	03438
60	Conventional Devices Being Replaced	P/O 3AC ESS 2 ## & C CIRCUIT BREAKER PANEL. (35A) CB5 (3A) INS STNC/ ACM PRL LTS P/O 3 AC ESS 24# & C CIRCUIT BREAKER PANEL. (35A)
1	P.C. Location	
9	Load Power Dissipation	
5	Duty	100\$
•	Associated Loads	ACM FANEL (TOEAL)
	Pating V & I	V = 26VAC
~	Type of Power Controller	AC - 1 POLE
-	Table Ites #	515 (coort '4)
	2 3 4 5 6 7 8 9 10 11	2 3 4 5 6 7 8 9 10 11 Type of Rating Daty Poer Controller V & I Associated Loads Cycle Dissipation Location Being Replaced Address Code Dravings

FIGURE 45_ SHOEF 1		Equation Description & Motes			NPO WHITE FLOOD LIGHT CONTROL CHANNEL 9 - ON - WHITE FLOOD SE (DIM OR BRIGHT) AND 115VAC, 400 HZ, R MAIN BUS PH. B - ON	NFO CONSOLE LIGHT CONTROL CHANNEL 8 - ON = CONSOLE		NFO RED FLOOD LIGHT CONTROL CHANNEL 10 - ON - CONSOLE IN - ON - NATIONAL LIGHT CONTROL IN THE BH C - ON	R - OH AND 11.7RC 400 ILE ESS PO. 1 - DOS FII. C - OH	UTILITY/NAP LICHTS TRANSFOHER (56TL) - ON - 115VAC 400 HZ ESS NO, 2 1918 PH. C - ON	ACM PANEL LIGHT CONTROL CHANNEL 2 - ON . ACM R3 - ON AND LY CALL ON PRINCE PH B - ON		PILOT INSTRUMENT LIGHT CONTROL CHANNEL 1 - ON =			PILOT CONSOLE LIGHT CONTROL CHANNEL 3-ON =	No	
29	7	Reference Drawings	IWSFD FIG. 45 ZONE 4A, 3A, 1A		IWSFD FIG. 45	IWSFD FIG. 45	ar 'ac 'ar awa	IWSFD FIG. 45		IWSFD FIG. 45 ZONE 1C	IWSFD FIG. 45	1A 13,	IWSFD FIG. 45	' (v) (a) anon	IMSPD FIG. 45 ZONE 7B, 5B, 1A	IWSFD FIG. 45	'ar' 'ar' anon	
TABLE III F-14 SOSTEL BOGLEAN EQUATIONS	9	Special Considerations	a) R, MAIN BUS	b) Part of Potentio- Meyer	R. MAIN BUS	a) R. MAIN BUS	b) PART OF POTENTIO- METER	a) ESS. NO. 1 BUS	b) PART OF POTENTIOMETER	ESS. NO. 2 BUS	a) R. MAIN BUS	b) PART OF POTENTIOMETER	a) R. MAIN BUS	b) PART OF POETNTIO- METER	R. MAIN BUS	a) R. MAIN BUS	b) PART OF POTENTIO- METER	
TABLE III F-14	•	Bus/Load Management Priority	3		E .	3		1		5	8		3		3	8		
	4	Solid State Controller List Cross Reference	505		905	105		506		505	510		511		512	513		
	3	Transducer List Cross Reference	905		20%	503		503		N/A	ż		505		× ×	105		
	8	Boolean Equation	LML505 - LHS500		LH256 - LH3501 +	LHE507 - LHS503		LHLSS - LHSS03		LHL'509	LHL 510 - LHE504		LHL511 = LHS505		LHL512 = LHS506	LHL513 = LHS507		
	-	Table Item #	505		8	20%		90%		\$	510		511		515	513		

60	Mquetion Description & Motes		ACH PAREZ LIGHTING - CM = (ACH RL - CM AND 115VAC LOO PZ R MAIN BUS PH. B - CM) OR (ACH RL - CPP AND 26VAC MAV BUS - CM	ACM PML DWR - ON = 26VAC NAV BUS - ON	
1	Reference Drawings	IMSED FIG. 45 ZONE 7C, 5B, 1C	INSPD FIG. 45	IMSED FIG 45 ZONE 8A, 1B	
9	Special Considerations	e) ESS. NO. 1 BUS b) PART OF POTENTIO- METER	a) R. MAIN BUS b) PART OF POTENTIO- METER	NAV BUS	
٠	Bus/Load Management Priority	1	m	ય	
•	Solid State Controller List Cross Reference	514	5115	916	
	Transducer List Cross Reference	205	33	N/A	
8	Boolean Equation	17E514 • LNS507	-LIE505 -LIE506	1.н.516	
- -	Table Item #	514	545	516	
	2 3 4 5 6 7	2 3 bold State 5 6 7 Transducer Controller Bas/Load Special Bafrone Boolean Equation Reference Reference Priority Considerations Drawings	Solid State Solid State Solid State Considerations Engrander Controller Data Cross Priority Considerations Presence Priority Considerations Drawings Drawings Considerations Consi	Solid State Solid State	Solid State Solid State

(13)

FIGURE 46 SHEET 1	13 Conditioning Technique	SOLID STATE	EXTERNAL SIGNAL ADAPTER	EXTERNAL SIGNAL ADAPTER	SOLID STATE	SOLID STATE	SOLID STATE	SOLID STATE	SQ.ID STATE
PTOUNE 46	12 Associated Boolean Equation	536	539	9	539	539	539	07	ş
	11 Reference Drawings	IWSPD FIG. 46 ZONE 13C	IWSFD FIG.	IWSFD FIG 4 ZONE 21C	INSPD FIG.	INSPD FIG. 4 Zone 24A	IMSED FIG 4 ZONE 24B	IWSPD FIG. 4 Zone 24 B	INSPD FIG. 4 ZONE 24C
	10 Operational Address	O4P31	05032	05033	O4.P.32	O4P33	O4P34	62460	05P23
	9 Conventional Switches Being Replaced or Deleted	SP TEST PANEL (720AL)	R INLET KANFS (710A1)	L INLET RANFS (710A1)	PIRST RIGHT COM- PRESSION RAMP STON SMITCH (3286)	SECOND RIGHT COM- PRESSION RAMP STON SWITCH (32ST)	FIRST RIGHT COM- PRESSION RAMP TRAIL SMITCH (32.85)	FIRST LEFT COMPRESSION NAMES STON NAMES STON SWITCH (3282)	SECOND LEPT COMPRESSION RAMP STOM
TRANSDUCERS	B Associated Loads	LAMP TEST P/O NPO CAUTION ADV IND (69A2A1)	R RAMES CAUTION LIGHT (69AL)	L RAMP CAUTION LIGHT (69A1)	R RAMPS CAUTION LIGHT (69A1)	R RAMPS CAUTION LIGHT (69A1)	R RAMPS CAUTION LIGHT (69A1)	L RAMPS CAUTION LIGHT (29A1)	L RAMPS CAUTION LIGHT (69AL)
TABLE I F-14 SOSTEL SIGNAL TRANSDUCERS	7 Present Signal Characteristics	OPEN/+28VIXC	OPEN/+2BVDC	OPEN/+28VDC	OPEN/+28VDC	OPEN/+28VDC	OPEN/+28VDC	OPEN/+28VDC	OPEN /-28 VTC
TABLE I F	6 Transducer Type	SP3T TOGGLE	DPVF	DFOT	SMITCH	SPOT LIMIT SWITCH	SMITCH	SPDT LINIT SWITCH	янт пит витен
	5 Point of Origin	NFO RIGHT SIDE CON- SOLE FS300	PILOTS LEFT SIDE CONSOLE FS225	PILOTS LEFT SIDE CONSOLE FS225	RIGHT SIDE FS375	RIGHT SIDE FS4.25	RICHT SIDE FS375	LEFT SIDE FS375	rslee
	ly Signal Source Box Identification	TEST PANEL (720A1)	INLET RAMES/ENG CRANK/THROTTLE CON- TROL PANEL (710A1)	INLET KAMES/ENG CRANK/THROTILE CON- TROL PANEL (710A1)	FIRST RIGHT COM- PRESSION RAMP STOW SWITCH (3286)	SECOND RIGHT COM- PRESSION RAMP STOM SWITCH (3257)	FIRST RIGHT COM- PRESSION RAMP TRAIL SWITCH (3285)	FIRST LEFT COM- PRESSION RAMP STOM SWITCH (3252)	SECORD LEFT COM- PAUSSION RAMP STON SMITCH (3283)
	3 Identifier Code	DUS-518	KAS519	KAS520	KCS/21	KCS522	KCS523	ксэхи	KCS 52-5
	2 Signal Name/Function	IND LT - ON	R AUTO/STOM - STOM	L AUTO/STOM- STOM	FIRST R COMP SW - NOT STOW	SECOND R COMP SW - NOT STOW	FIRST R TRAIL- KCS523 NOT TRAIL	FIRST L COMP SW - NOT STOW	SM - NOF STOM
	Table Item #	518	615	0%	\$	84	Ñ	Ž	â

13 Conditioning Technique	SCLID STATE	RESISTOR DIVIDER ADAPTER	RESISTOR DIVIDER ADAPTER	RESISTOR DIVIDER ADAPTER	SOLID STATE	SOLID STATE	EXTERNAL SIGNAL ADAPTER	SOLID STATE
12 Associated Boolean Equation	24.0	147	×43	¥ 3	75	£5.	£2.5 £2.5 £2.5 £3.5	4
11 Reference Drawings	IWSFD FIG. 4 ZONE 24C	IWSFD FIG. 2 ZONE 25B	IWSFD FIG. 24 ZONE 43A	IWSFD FIG 24 ZONE 43C	INSFD FIG. 43 ZONE 6A, 7A	IWSPD FIG. 43 ZONE 6A	IWSPD FIG. 43 ZONE 6A	INSPD FIG. 43 ZONE 6C, 7B
10 Operational Address	45450	05925	06P39	OTP39	O4.P35	O4P36	05D34	O4.P37
9 Conventional Switches Being Replaced or Deleted	PIRST LEFT COMPRES- SION RAMP TRAIL SWITCH (32SI)	DETENT POSITION SWITCH P/O (50A2)	LEFT WING SEAL DUMP VALVE SW (50L3)	RIGHT WING SEAL DUMP VALVE SO (5012)	H (SC) P/O MASTER GEN CON- THOL PANEL (716A1)	MASTER GEN CONTROL PANEL (716A1) R (52)	N/A	KJ AC L MAIN L (S1) MASTER GEN HWR CON- FOUNT PAREL (716AL) FOUNT PAREL (6666) L VOLTAGE FEG (66AL)
8 Associated Loads	L. RAMPS CAUTION LIGHT (69A1)	K94 WING SWEEP DE- TENT P/O RGRB (772AL)	K69 WING SWEEP ACT, INTIK (RCRB 772AL)	K69 WING SWEEP ACT. INTLK (RGRB 772A1)	KZ ACH MAIN FUR CONTACT- OR (P/O 66A6) R. VOLT REG (66A2)	RIGHT VOLT- AGE REG. CONTROL (66AZ) TEST RELAY	TEST RELAY P/0 (66A2)	KI AC L MAIN PWR COM- PACTOR (66A6) L. VOLTAGE REG (66A1)
7 Present Signal Characteristics	OPEN/+28VDC	OPEN/+28VDC	OPEN/+28VDC	OPEN/+28VDC	ореи/28 vdc	OPEN/28VIX	OPEN/28VDC	OPEN/28VDC
frensducer Type	SPOT LIMIT SWITCH	DETENT ACTUATED LIMIT SWITCH	SOLENOID OPERATED CONTACTS	SOLENOID OPERATED CONTACTS	DEST SPRING LOADED TO ONE SIDE TOGGLE	DP3T SPRING LOAD- ED TOGGLE	N/A	DP3T SPRING LOAD- ED TO ONE SIDE TOGGLE
5 Point of Origin	LEFT SIDE FS375	PS\$40	LEPT SIDE FS650	RIGHT SIDE FS650	PILOTS RIGHT SIDE CON- SOLE FS225	FILOTS RIGHT SIDE CON- SOLE FEE25	LEPT SIDE FS375	PILOTS RIGHT SIDE CONSOLE PS225
h Signal Source Box Identification	FIRST LEFT COMPRESSION RAMP TRAIL SMITCH (3281)	WING SMEEP/FIAP AND SLAT CONTROL. BOX (50A2)	LEFT VING SEAL DUMP VALVE (50L3)	RIGHT WING SEAL DUNCY VALVE (5012)	MASTER GEN CONTROL. PANEL (716A1)	masteh gen, control Panel (716al)	R VOLTAGE REG CONT (66A2) GEN CONTROL RELAY	MASTER GEN CONTROL. PANEL. (71641)
3 Identifier Code	KCS:226	CKS 527	64 8528	68829	POS530	P06531	P08532	P08533
2 Signal Mame/Punction	FIRST L TRAIL - NOT TRAIL	WING SWEEP DETENT SW ENGAGED	LEFT WING SEAL DUMP VALVE - OPEN	RIGHT WING SEAL DUMP VALVE - OPEN	FIGEN CONTROL - NORM	R. GEN COM- TROL - TEST	R. GEN CONT FWR - ON	L, GEN CON- TROL - NORM
- ig	×	r×.	88 88	â	530	531	88	533
	Signal Source Point of Transducer Present Signal Source Point of Transducer Present Signal Source Point of Transducer Present Signal Associated Switches Pang Associated Associated Switches Pang Addmss Present Signal Present Signal Associated Point Present Signal Associated Associated Point Present Signal Associated Associated Point Present Signal Associated Associated Associated Point Present Signal Associated Associated Point Present Signal Associated Present Prese	Signal Gode Box Identification Origin Type Characteristics Loads Figure Signal Survey Freent Signal Machine Box Identification Origin Type Characteristics Loads Figure CourseMont Figure Signal Response or Deleted Address Process LEFT SIGN NAWP TRAIL SIGNA NAWP	Signal Source Rail Identification Origin Present Signal Maccarded Switches Band Conventional Code Build Origin Type Characteristics Loads Patithes Band Address Drawing Replaced or Deleted Address Drawing Replaced Origin Prior Light RCSSC SION NAME SWEEF TRAIL SWITCH (2821) WING SWEEF CASSCT WING SWEEF/FIAP AND PSSIO DETEAT CONFIG. SWITCH SWITCH SWITCH (2821) WING SWEEF CASSCT WING SWEEF/FIAP AND PSSIO DETEAT CONFIG. BOX WILTS LINT SWITCH (2821) WING SWEEF CASSCT WING SWEEF/FIAP AND PSSIO DETEAT TRAIL THE TEACH SWITCH (2821) WING SWEEF CASSCT WING SWEEF/FIAP AND PSSIO DETEAT CONFIG. BOX WILTS THEN POSITION CORP. SWITCH (2821) WING SWEEF CASSCT WING SWEEF/FIAP AND PSSIO DETEAT THEN FOR FIACH SWITCH (2821) WING SWEEF CASSCT WING SWEEF/FIAP AND PSSIO DETEAT THEN FOR FIACH SWITCH (2821) WING SWEEF CASSCT WING SWEEF/FIAP AND PSSIO DETEAT THEN FOR FIACH SWITCH (2821) WING SWEEF CASSCT WING SWEEF/FIAP AND PSSIO DETEAT THEN FOR FIACH SWITCH THEN FOR FIACH SWITCH (2821) WING SWEEF CASSCT WING SWEEF/FIAP AND PSSIO DETEAT THEN FOR FIACH SWITCH SWITCH (2821) WING SWEEF CASSCT WING SWEEF/FIAP AND PSSIO DETEAT THEN FOR FIACH SWITCH SWITC	Signal Source Paint of Transducer Present Signal Associated Point of Transducer Present Signal Point of Transducer Present Signal Associated Point of Transducer Present Signal Associated Point of Transducer Present Signal Print Print	Hame/Plactic Code Box Identification Origin Type Characteristic Load Box Identification Origin Type Characteristic Load Box Identification Origin Type Characteristic Code Box Identification Origin Through Thalia Code Box Identification Origin Through The Code Box Identification Origin Through Through The Code Box Identification Origin Through	Signal Signal Source Point of Transducer Point of Transduc	Signature	State Code Base State Code Base Code Code

									-	
PICURE 46 SHEET 3	13 Conditioning Technique	SOLID STATE	EXTERNAL SI CNAL ADAPTER	EXTERNAL SIGNAL ADAPTER	EXTERNAL SIGNAL ADAPTER	EXTERNAL SIGNAL ADAPTER	EXTERNAL SIGNAL ADAPTER	RESISTOR DIVIDER ADAPTER	RESISTOR DIVIDER ADAPTER	EXTERNAL SI CRAAL ADA PTER
PIGURE 46	Associated Boolean Equation	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	684 755	£\$\$	£\$\$	550	88 89	551	<u>18</u>	88
	11 Reference Drawings	IWSFD FIG. 43 ZONE 6C	INSPD FIG. 43 ZONE 6C	IMSPD FIG. 43 ZONE 5B	IWSPD FIG. 43 ZONE 5C	IWSPD FIG 43 ZONE 10A	IWSPD FIG. 43 ZONE 10C, 10B	MAYAIR 01- F14AA-2-2- 6-006 F1G. 2	NAVAIR 01- F14AA-2-2- 6-006 FIG. 2	MANAIR-01- F14AA-2-2- 6-013 F1G. 2
	10 Operational Address	O4.P38	05035	05036	05037	от 30	92039	04890	orpho	05039
	9 Conventional Switches Being Replaced or Deleted	MASTER GEN CONTROL FANEL (716A1) L(S1)	N/A	₹/#	N/A	N/A	N/A	N/A	N/A	ил
TRANSDUCERS	8 Associated Loads	LEFT VOLT- AGE REG CON- TROL (66A1) TEST RELAY	TEST RELAY P/0 (66A1)	AGE REG. CONTROL (66A2)	1099 1099	KO R MAIN DC FWR CONTAC- TOR (67A3)	NZ L MAIN DC PWR CONTAC- TOR (67A3)	OIL PRESS INDIC (69A1)	OIL PRESS INDIC (60AL)	ENGINE ANTI- ICE RELAY (A RGSA (772A1)
TABLE I P-14 SOSTEL SIGNAL TRANSDUCERS	7 Fresent Signal Characteristics	OPEN/28 VDC	OPEN/28VDC	OPEN/28VDC	OPEN/28VDC	GND/+28v	GND/+28V	OPEN/GND	OPEN/GND	28VDC/ОРБИ
TABLE I. P.	6 Trensducer Type	DP3T SPRING LOADED TOGGLE	V/N	N/N	N/A	N/N	N/A	SPST PRES.	SPST PRES- SURE SWITCH	N/A
	5 Point of Origin	PILOTS RIGHT SIDE COM- SGLE FS225	LEFT SIDE FS375	LEFT SIDE FS375	LEPT SIDE PS375	FS405	FS395	L. ENGINE FS700	R. ENGINE FS700	LET INF LET DUCT FSS20 R. 61.5
	l _i Signal Source Box Identification	MASTER GEN CONFRG. PANEL (716A1)	L. VOLTAGE REG. CONT (66A1)	R. VOLTAGE REG. CONT (66A2)	L. VOLTAGE REG. CONT (66A1)	R. XPMR-MECT (67TM2)	L. XPMR-RECT (67TR)	L. ENGINE OIL PRESSURE SM (70A2)	R. ENGINE OIL PRESSURE SW (70A2)	ICE-DETECTOR 39AL
	3 Identifier Code	P08534	PO6535	P08536	POS537	PAS538	PAS539	EPS540	£18541	BMSS43
	2 Signal Mane/Punction	L, GEN CONTROL. TEST	L. GEN CONT PWR - ON	R. RECTIFIER PAR.ON	L. RECTIFIER FWR - ON	R. DC PWR - ON	L DC FAR - ON	L. ENGINE OIL PRESSURE - LOM	R. ENGINE OIL. PRESSURE - LOM	ICE PROBE - ON
	Pable Ite	534	535	236	537	538	539	250	ž	£ 73

PIGURE 46 SHEET 4	13 Conditioning Technique	SOLID STATE	SOLID STATE	SOLID STATE	SOLID STATE	RESISTOR DIVIDER ADAPTER	EXTERIAL SIGNAL ADAPTER
PIGUR 46	12 Associated Boolean Equation	\$ 5		232	* .	557	5% 738 739
	11 Reference Drawings	NAVAIR-01- F14AAA-2-2- 2-020 F1G, 2	NAVAIR-01- F14AA-2-2- 2-019 F1G, 2	NAVAIR-01- F14AA-2-2- 2-019 F1G. 2	NAVAIR 01- FILAAA-2-2- 2-008 FIG. 2	INSPD FIG. 32 ZONE 354, 364	MVAIR-01- P16, 5 P1G, 5
	10 Operational Address	03P30	03P31	9. P. S.	03P33	03F34	07031
	9 Conventional Switches Being Replaced or Deleted	CANOPY SN (70S1)	PILOT OXY PRESS. SW (41S1)	NPO OXY PRESS, SW (41S2)	70SZ BOARDING LADDER Sm	N/A	м/м
TRANSDUCERS	8 Associated Loads	CANOPY LIGHT P/O PILOT & NFO CAUTION/ ADVISORY IND (69A1, 69A2)	PILOT & NFO OXY LOW LAND (69A1, 69A2)	PILOT & NFO OXYGEN LAMP (69A1, 69A2)	LADDER LIGHT (69A1)	OVERHEAT RELAY K2 (LUAL) COGLING AIR IND (P/O 69A2)	Radar en Land (Gare)
TABLE I F-14 SOSTEL SIGNAL TRANSDUCERS	7 Present Signal Characteristics	OPEN/+28V	OPEN/+28V	OPEN/+28V	OPEN/+28VDC	GND/+28VDC	OPEN/+28v
TABLE I P	6 Transducer Type	SPOT LIMIT SMITCH	SURE SURE	SPST PRES- SURE	SPDT LIMIT	OVERHEAT RELAY CONTACTS	ч/ч
	5 Point of Origin	F839	F2256	FS322	BOARDING LADDER LEFT SIDE FS281	017254	7815
	ly Signal Source Box Identification	CANOPY SW - 70S1	OXYGEN PRESSURE WARNING SW (PILOT) 41S1	OXYGEN PRESSURE WARNING SW (NFO) 4152	BOARDING LADDER WARNING SWITCH (7052)	COMING EFFECT CONTROLLER (44A1)	raiah test emble Cont. Fanel (27a37)
	3 Identifier Code	DUS 544	VIIS%	4H3546	742sua	HIBS/48	6 .5 2018
	2 Signal Name/Function	CANOPY SW -	PILOT OX PR - LON	NFO OX FR - LOW	BOARDING LAD- DER - DN	COCLING AIR -	HADIATE & SCAN
	Isble Item	175	£	¥	F	84.	24.0

PLOURE 46 SHEET 5	13 Conditioning Technique	EXTERNAL SI GNAL ADAPTER	EXTERNAL SIGNAL ADAPTER	EXTERNAL SIGNAL ADAPTER	EXTERNAL SICHAL ADAPTER
PIGURE 46	12 Associated Boolean Equation	685	239	£	%
	11 Reference Drawings	INSPD FIG. 4 ZONE 16A	IWSPD FIG. 4 ZONE 16A	INSED FIG. 4 ZONE 12A	FIG. 4 ZONE 12A
	10 Operational Address	o ന 32	077033	05040	ospkı
	9 Conventional Switches Baing Replaced or Deleted	н/А	A/A	N/A	N/A
TRANSDUCERS	Associated Loads	K99-R AICS HYD PRESS SOL (TIME DELAY) (RIGHT GLOVE RELAY BOX (772A1)	K59-R AICS HYD PRESS SOL (TIME DELAY) (HIGHT GLOVE RELAY BOX 772AL)	K76 - L AICS HYD PRESS SOL (TIME DELAY) (RCHB 772A1)	KYG - I. AICS HYD PRESS SQL (THE DELAY RORB 772A1)
TABLE I F-14 SOCTEL SIGNAL THANSDUCERS	7 Fresent Signal Characteristics	амр/орем	28иис	GND/OPEN	26VD C
TABLE I F	6 Transducer Type	N/A	N/A	N/A	N/A
	5 Foint of Origin				
	Signal Source Box Identification	RIGHT AIR INLET CONTINGL PROGRAMBER (32A7) (HYDBAILLICS ON SIGNAL)	RIGHT AIR INLET CONTROL PROGRAMMER ('28A7) (K59-28VDC)	LEFT AIR INLET CONTROL PROGRAMMER (32A6) (HYDRAULICS ON SIGNAL)	LEFT ATR THEFT CON- THOL PROGRAMMER (RSG-28 VDC)
	3 Identifier Code	DIE015	P165779	016540	
	2 Signal Name/Function	R-AICS HYDR-ON DIEO15	R-AICS-28VDC	L-AICS - HYDR- DIBSBO	L-AIGS - 26VDC DREYSI
	Table Item#	015	579	93,	<u> </u>

	_							_						 	_
PICURE 46 SHEET 1	ឌ	Associated Boolean Equations	685		530			531				532			
MO	п	Reference Drewings	IWSFD FIG. 46	ZONE 3A, ZA	IWSPD FIG.	20, co		IWSFD	ZONE 14A,	13v, ca		INSPD	ZONE 13C, 2B		
	07	Identifier Code	VAL529		DUL 530			DUL531				DUL 532			
	٥	Operational	07429		ользь			01035				96010			
TABLE II F-14 SOLID STATE POWER CONTROLLERS AND DRIVERS	8	Conventional Devices Being Replaced	CELO TR-ADVSY PLT ANN PML AUX PWR	P/O 8 DC ESS 2 CIRCUIT BHEAKER PANEL (36A2)	P/O WHITE FLOOD S-3	MASTER LIGHT CONTROL PANEL (713A1)	CB34 (5A) DDI/ANN PML DIN CONT 10 DC MAIN CIRCUIT BREAKER PANEL (36A4)	P/O WHITE FLOOD S2	P/O INSTRUMENT RI	D/L REPLY AND INTR LIGHT CONTROL PANEL (724A7)	CB34 (SA) DDI/ANN PNL. DIM CONT 10 DC MAIN CIRCUIT BREAKER PANEL (36A4)	SP TEST PANEL (720A1)	CB34 (5A) DDI/ANN PNL. DIM CONT 10 DC MAIN CIRCUIT BREAKER PANEL (36A4)		
ID STATE POWE	1	P.C. Location													
N. 11 F-14 80.	•	Load Power Dissipation													
А	5	Duty Cycle													
	•	Associated Loads	POWER TRANSPER RELAY & LOGIC CKTS	P/O PILOT CAUTION ADVISORY INDICATOR (69A1)	DIM SIGNAL - ON P/O PILOT CAUTION ADVISORY INDICATOR	(v69)		DIM SIGNAL - ON	P/O NFO CAUTION	(GAZAL)		LIGHTS TEST	ADVISORY INDICATOR (69A2A1)		
	6	Pating V & I	V- +28VDC		V= +28VDC			V = +28VDC				V - +28VDC			
	c,	Type of Rower Controller	DC - 1 POLE		ENABLE			ENABLE	DRIVER			ENA BLE			
	7	Table Ites	8		530			531				535			

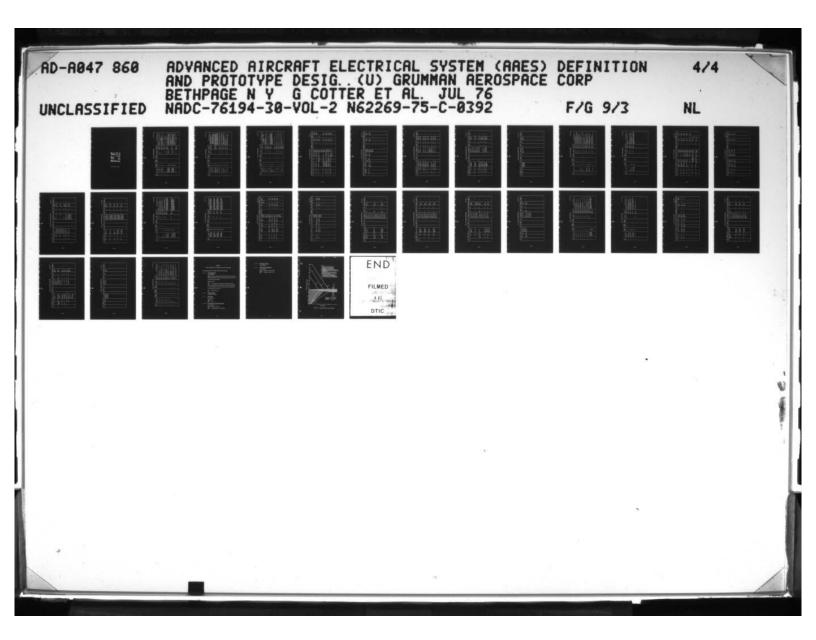
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PLOUIS 46 SHEET _2	a	Associated Boolean Equations	\$85	536							£						
Ĭ	п	Reference	IWSFD FIG. 4-	IWSFD FIG. 4 ZONE 13C, 1B	INSFD FIG. 46 ZONE 7A						IWSFD FIG. 46 ZONE 7A						
	or	Identifier Code	KAL535	. KAL536	DUL539						DUL540						
	•	Operational	01435	05050	01D37						960110						
TABLE II 7-14 SOLID STATE POWER CONTROLLERS AND DRIVERS	80	Conventional Devices Being Replaced	CB16 EMERG GEN TEST/ L. AICS LKUP FWR (36A2)	CB15 ANTI-SMO/R AICS LKUP FWR (36A2)	R. STOW & TRAIL SWITCHES (3286, 3287, 3288, 3285)	P/O K38 MLG HDL'G RGRB (772A1)	P/O K59 R AICS HYD PRESS SOL. RGBB (772A1)	CER R AICS (35A6)	CB15 R AICS LKUP (36A2)	CB41 R AICS NAMP (36A1)	L. STOW & TRAIL SWITCHES (32S1, 32S2, 32S3, 32S4)	P/O K90 MLG HDL 'H' LGRB (773A1)	P/O K56 L AICS HYD PRESS SOL LGRB (773A1)	CB3 L AICS (35A6)	CEN E L AICS LKUP (36A2)	CB42 L AICS RAMP (36A1)	
ID STATE PONE		P.C. Location															
NE 11 F-14 80.	9	Load Power Dissipation															
A	•	Duty															
		Associated Loads	L. AIR INEET CONTROC TROL PROGRAMMER (32A6)	R, AIR INLET CONTROCK PROCRAMER (32A7)	R. RAMPS CAUTION LIGHT	P/O FILOT CAUTION ADVISORY INDICATOR (69A1)					L. RAMPS CAUTION	ADVISORY INDICATOR (69A1)					
		Pating V & I	V = +28VDC	v = +28VDC	V = +28VDC						v = +28vDC						
	CV.	Type of Power Controller	DC - 1 FOLE	DC - 1 POLE	LAMP DRIVER						LAMP DRIVER						
	-	Table Ites	232	236	539						Ş.						
	_																

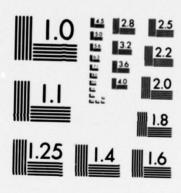
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21	Associated Boolean Equations	175		•	24.5			¥.3							¥	
1	Reference Drewings	IWSFD FIG. 2 ZONE 1C, 22A 25B, 36B			IMSFD FIG. 2 ZONE 43A,	368, 1C		INSPD FIG.	378, 36A,	434, 43c, 208, 10			'n		INSPD FIG. 43 20NE 7B, 6A	
07	Identifier Code	T45.IUG			CKL542			DUL543			•				POLSHA	
6	Operational	95010			07438 03 Q 49			отого							01436	
80	Conventional Devices Being Replaced	K94 WING SWEEP DETENT RGRB (772A1) DETENT POSITION SW	P/O WING SWEEP/FLAT AND SLAT CONTROL BOX (50A2)	CEC WING POS IND DC (36A2)	CEE WING POS IND DC (36A2)	P/O K68 WING SEAL	P/O K12 MLG SAFETY K RGRB (772A1)	K69 WING SWEEP ACT.	K73 WING OVERSWEEP PUR	K72 680 LOCKOUT RGRB (772A1)	HORIZ TAIL RES. AUTH. SW (5052)	AFT STICK AITH (5083)	P/O THROTTLE QUAD (711AL)	HOKIZ TAIL AUTH STOP SW (50S1)	K(32) - MSTER GEN CONT FANEL (716A1)	
1	P.C. Location															
9	Load Power Dissipation															The same of the sa
•	Duty															
•	Associated Loads	P/o K94 WING SWEEP DETENT RGHB (772A1)	WING SWEEP INDICATOR (26A1)		SEAL DUMP VALVES	(ME, ME3)		HZ TAIL AUTH INDI- CATOR PILOT	(69A1)						AC R. MAIN POWER CONTACTOR (K2) (6GA6)	The second secon
	Reting V & I	V = GND			V = +28VDC			V = 0 VDC (GND/OPEN)							V = +28VDC	
N.	Type of Power Controller	ENABLE DRIVER			RELAY DRIVER			LAMP DRIVER							RELAY DRIVER	
-	Table Ite #	43			545			£ 3							表	
	3 4 5 6 7 8 9 10 11	2 3 4 5 6 7 8 9 10 11 Type of Fourtr Net I Associated Loads Cycle Disalpation Location Being Replaced Address Code Drawings	Type of Power Controller V = GND Proper Controller Relief From Proper Controller V = GND Proper Controller Right Right (772A1) Right (Type of Fourth Nation Page Pa	Type of Perture Reing Procession Pro	Type of Post Fig. Load P.C. Courentional Davices Daty Daty Disalpation Location Davidates P.C. Courentional Davices Address Code Dravings Dravin	Type of Reing Reing Address P.C. Conventional Davices P.C. Conventional Davices P.C. Conventional Davices Address Code Drawings Partings Partings	Type of Puting Load P.C. Courentional Davices P.C. Courentional Davices P.C. Disappeted P.C. Disappeted	Data of Part Parting Proper Pro	Paper	Part Part	Part Part	Type of Nation State Nation State Nation State Nation State Nation Nati	Part Part	Part Part	SHAPE No. 10 SHAPE No. 10 SHAPE SH

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व	Associated Boolean Equations	575	976	75.	88	64	82	551	œ.
п	Reference Drewings	INSPD FIG.	INSPD FIG. 43 ZONE 7A, 7B	IWSFD FTG. 43 ZONE 8B, 6C	IWSFD FIG. 43 ZONE 60	INSPD FIG. 43 ZONE 7B, 6C	INSED FIG. 43 ZONE 12A, 11C, 10B, 10A	NAVAIR 01- F14AAA-2-2-6 FIG. 2	IWSPD FIG. 46 ZONE 11A
01	Identifier Code	PQL545	DULY6	Pat.547	POLY-8	Pul.49	DUL.550	EPL551	QDL552
0	Operational		Olbhi	01437	16090	011042	011043	01044	01045
8	Conventional Devices Being Replaced	R(22) P/0 (716A1)	P/O K2 AC R MAIN PWR CONT. (66A6) CB11 R. GEN CAUTION (36A2)	L(S1) - MASTER GEN CONT PANEL (716A1)	L(S1) P/0 (716A1)	P/O KI AC L MAIN PUR CONT (66A6) CB12 L GEN CAUTION (36A2)	CBIO TR ADJUST/PLT ANN PAL AUX FAR (36A2)		
7	P.C. Location								
, ,	Load Power Diesipation								
2	Duty								
-	Associated Loads	R. TEST RELAY P/O R. VOLT REG. CONT (66A2)	R. GEN LAMP P/O PILOT CAUTION ADVISORY INDIC. (69A1)	AC L MAIN POWER CONTACTOR (KL) (66A6)	L. TEST RELAY P/O R VOLT REG CONT (66A1)	L. GEN LAMP P/O PILOT CAUTION ADVISORY INDIC (69A1)	TRANS/RECT LAMP P/O PILCY CAUTION ADVISORY INDIC (67A1)	OIL PRESS LAMP P/O PILOT CAUTION ADVISORY INDIC (69A1)	LAUNCH BAR LAND P/O PILOT CAUTION ADVISORY INDIC (69A1)
3	Reting V & I	V - +28VDC	v = +28VDC	v = +28vDc	v = +28VDC	V = +28VDC	V = +28VDC	V = 0 VDC	v = +28vDc
~	Type of Power Controller	RELAY DRIVER	LAMP DRIVER	RELAY DRIVER	RELAY DRIVER	LAMP DRIVER	LAMP DRIVER	LAMP DRIVER	LAMP DRIVER
-	Teble Ites #	545	94	7.5.	£	5	0,5	155	85
	3 4 5 6 7 8 9 10 11	2 3 4 5 6 7 7 8 9 10 11 12 Type of Rating Daty Power P.C. Conventional Devices Operational Devices Operati	2 3 4 5 6 , 7 7 8 9 10 11 12	Type of Paris Reting Program Program	Type of Power	Proper of Part Part	Process	Part Part	Particle Particle

£139

	_										_						
PICURE 46 SHEET 2	व	Associated Boolean Equations	844			٠	₹.	525			955		2557		28		
Ĕ	#	Reference Drewings	NAVAIR 01-	FIG. 2			NAVAIR-01- F14AAA-2-2-2 F1G. 5	NAVAIR-01-	2		NAVAIR-01-	FIG. 2	INSPD	ZONE 364, 35 35A	IWSPD	FIG. 46 ZONE 16B NAVAIR-01-	F14AAA-2-2- 16A
	10	Identifier Code	HAT.553				DUI.554	WHIL555			9657nd		HNLSS7		SW.558		
	6	Operational	97/010				74010	01048			61010		05010		01051		
TABLE II F-14 SOLID STATE POMER CONTROLLERS AND DRIVERS	80	Conventional Devices Being Replaced	P/O ENGINE ANTI-ICE RELAY K4	P/O MSC STARF 'A' RELAY K3 RGS A (772A1)	CBI - (36A3) ENG ANTI-ICE VALVES	CB13 - (36A3) ENG/PROBE ANTI-ICE	CB34 (36A2) CAN/LAD/CAUTION/EJECT CANOFY IND (70S1)	CB13 (36A2) OXY/BINGO CAUTION	PILOT OXY PRESS. SW (41S1)	NFO OXY PHESS. SW (4132)	CB34 (36A2)	CANOPY IND	P/O K2 OVERHEAT RELAY	TROLLER (44A1)	CBIO (36A4) ELEC COOL- ING K30	F/O RGRB (772A1)	
ID STATE POSE	7	P.C. Location															
18. II 7-14 8G	9	Load Power Dissipation															
A	•	Duty Cycle															
	•	Associated Loads	INLET ICE LAND	ADVISORY IND (69A1)			CANOPY LIGHTS - P/O PILOT & NPO CAUTION/ADVISORY IND (69A1, 69A2)	OXY LOW P/O PILOF & NPO	CAUTION/ADVISORY IND (69A1, 69A2)		LADDER LIGHT	P/o PILOT PANEL (69A1)	COOLING AIC - LIGHT	P/o NPO PANEL (69A2)	NOR EN LAMP	P/0 NPO PANEL (69A2)	
		Reting V & I	V = +28VDC				V = +28VDC	V = +28VDC			V - +28VDC		V - +28VDC		v = +28VDC		
	8	Type of Power Controller	LAMP DRIVER				LAMP DRIVER	LAMP DRIVER			LAMP DRIVER		LAMP DRIVER		LAMP DRIVER		
	-	Teble Item #	853				**	555		,	955		1557		558		





MICROCOPY RESOLUTION TEST CHART NATIONAL BUREAU OF STANDARDS-1963-A

1.											
TOTAL STORY	•	Mquation Description & Notes	CONTINEL POWER - ON - FILOT CAUTION/ADVISORY CONTROL. POKEN - NOT ON	PILOTS CAUTION ADVISORY INDICATOR DIN SIGNAL-ON - MIGTE PLOCE-OFF AND INSTRINGER IS - ON	NPO CAUTION ADVISORY INDICATOR DIM SIGMAL - ON - INSTRUMENT LITING M3 - ON AND WHITE PLOED - DIM NOT AND WHITE PLOED - BRY NOT	LIGHTS TEST - ON - IND LT - ON	LEPT AICS 28VDC - ON - 26VDC ESSENTIAL NO. 2	NIGHT ALCS 28VDC - ON - 28VDC ESSIDYTIAL NO. 2	RIGHT NAVES CAUTION LIGHT. ON . (FIRET COUPS AT . NOT STOW, OR SECOND R CURE SV . (FALN LANGTHO GIAR HANGLE. DOWN OR RAITOUTTON . STOW) OR STOW) OR (I.K. DIPPLERS HAMP SV . NOT STOW OR PIRST R THALL SV . - NOT THALL) AND (R-ALICS RETARMELETS . NOT ON OR . R-ALCS - 26'NOT MOT)	LIPT MADE CUTTOR LIGHT OR SECOND L CORP SH - (FIRET L CORP SH - NOT STON OR SECOND L CORP SH - (FLO MENTEL FORM SH L ANTO/STON - STON) SH - (LL DIPMERS NAME SH - NOT STON OR PLACE - THALL SH - NOT THALL SH - NOT THALL SH - NOT THALL SH - NOT STON OR PLACE - SECOND SH - NOT STON OR SH - NOT STON	DETENT ENGAGED - ON - WING ENGEST DETENT BALTON - ENGAGED
	1	Reference Drawings	1WSPD FIG. 46 20ME 3A, 2A	INSPD FIG. 46 ZONE 3B, 2B	INSPD FIG. 46 ZORE 14A, 13A, 2B	1WSFD FIG. 46 2ONE 13C, 28	INSPD FIG. 4	14870 F1G. 4 ZONE 13C, 18	2082 24A, 23A	ZONE 24C, 23C	INSFD FIG. 2 2008 IC, 22A, 258, 368
TABLE III 7-14 BOSTEL BOSTEAN BEIGHTON	•	Special Considerations	ESS. NO. 2 BUS	R. MIN BUS	R. MIN BIG		ESS. NO. 2 MIS	ESS. NO. 2 MUS	a) E38, NO. 1 NUS b) K99 13 A TIME DELAY HSEAT	e) E35, NO. 1 - 805 b) E96 13 A TIME BELAY 192A?	LSS. NO. 2 848
TABLE 111 7-16 1	•	Bus/Load Management Priority	8	•	•	~	~	-	-	N	
		Solid State Controller List Cross Reference	\$	230	531	235	535	536	85	ş	3
		Transducer List Gross Meference	N/A	88	888	518	ź	ž	28232225 2823225	8384844	24
	~	Boolean Equation	VALS29 - DULOTS	DUL530 - LIB506 • LIB505	DUL531 - LNS500 (LNS501 - LNS502)	DUL532 - DUS518	KAL535	KAL536	DUL539 = { (KCS221 + KCS128) (GS22 + KCS118) (GS22 + KCS13) (GES11 + KCS23) + (GES12 + KCS23) (DRS015 + DRS79)	DULMO = { (KUSSQ4 + KCSY25 + KCSY25 + KCSY25 + KUSY25) } (GROUP + KUSY26) + (GROUP + KUSY26) + (DRS780 + DRS781) }	DU.541 • CKS527
	-	Table Item	6%	230	Ę	535	535	536	539	₹	4

- 1	_								
MOUNT NE SHOOT 2		Mustion Description & Motes	A RIGHT AND LEFT WING SEAL DIAGT VALVES - SET (DERENTED) - WING SKEP MARGIE - MAISED 2.5 INCHES AND L AND R MAG WAY, (DERENTETZE) - WING SKEP WAYER OF S. SS - GPO AND WING SKEP WAYER POS. SW - LONEST AND MAGE FOR SW - LONEST AND LEFT AND MAGE FOR SW - MAGE FOR SW - LONEST AND LEFT AND MAGE FOR SW - MAGE FOR	AC TAIL AUTH LIGHT. OR - [HORIZ TAIL MESTRECTED AUTHORITY - METHORITY AND THUN - STICA MITHORITY - METHORITY AND THUN - METHORITY AND THUN - METHORITY AND THUN - METHORITY AND THUN - METHORITY - METHORITY AND THUN - METHORITY - METHO	ACH MAIN POMIN - CH - N. CHN, CONTROL BY - NOW AND R. CHN CONT TWR - CH AND R. NEUTIFIEN TWR - CH	R. THUT MELAY - EMERCIZED - R. GEN, CONTINCE, SW - TEST AND R. GEN CONT IMM - ON AND R. MECTIFIER IMM - ON	R. CON LAND - ON - NAC MAIN PAR CONTRACTOR - NOT ON LINK AND (R. CAN CONTRACT SO - NAT ON TRET GR. R. CONT CONT NAY - OPF ON R. MACTIFIER PAR - OPF) AND 26 VIG ESS NO. 2 NO OR	AC L WATE FORES - OR - L. GOS CONTROL DV - NORM AND L. CON CONT TWE - OR AND L. INSTITUTE FOR - OR	L, Ther heart - denotize - L, Cer, control, Br. Their are L, Grecont NR - On Are L, Rectivities NR - Cil
2		Brevence	INSPD FIG. 2 ZURE 43C, 43A, 36C, 36B, 1C	INSTO FIG. 24 ZONE 358, 378, 36c, 358, 364 376, 13c, 43c, 43c ZON, 10	INSPD FIG. 43 ZORE 78, 6A	INSPD FIG. 43 ZONE GA	INSPD FIG. 43 ZONE 7A, 78	ZONE BB, 60	ZONE GC. 43
TABLE III P-14 SOSTEL BOLLEAN EQUATIONS	9	Special Considerations	*) ESS. NO. 2 BUS b) KGS IS A LATCHING KELAY	ESS. NO. 9 NG.	ESS. NO. 2 BUS	ESS. NO. 2 MUS	ESS. NO. 2 BIG	ESS, NO. 2 BIS	ESS. NO. 2 NES
TABLE 111 P-14	•	Bus/Load Management Priority	~	O4	8	N	N	2	~
		Solid State Controller List Cross Reference	₹.	¥	į	ŝ	¥	14	8 7
		Transducer List Cross Reference	000 1002 007 007 100	88888888 88888888	88 88 88 88	25 55 25 55 26 55	93 53 53 53 53 53 53	535 537 537	######################################
	8	Boolean Equation	•) CKL-542 • CKSO27 •(GDSO02 • GUS102) b) CKL-5422 • CKSO30 • CKSO27 • GDSO02 •	DULSA3 - (CFSRE + CFS (CBSOR - GESDR) + CFSRE (CKSOR - GESDR) + CFSRE - CKSOR - CKSOSO + CFSRE - CKSOSO + CKSCR + CKSOSO) - (CKSCR - CKSOSO) -	FOL. 544 = FOS530 • FOS532 • FOS536	POES32 • POES31 •	DUL946 - XASOO3 • (POS531 + POS532 + POS532)	POL947 * POE533 * POE535 * POE537	FG535 • FG537
	-	Table Item #	¥	ž	3	54.	74	74	¥8

MOUNE 46 SHORT	•	Aquetion Description & Motes	L. CEN LAND - ON - L AC MAIN PUR CONTACTOR - NOT ON LINE AND (L. CEN CONTACT SN - NOT ON TEST OR L. CEN CONT NR - OFF OR L. RECTIFIER NR - OFF) NO.	THANS/RET LAMP - ON - LEFT OR RIGHT THANSFORMER/RETTFIER - OFF AND 28VIC ESS NO, 2 NIS - ON	OIL PRESS - ON - LEPT OR MIGHT ENGINE OIL PRESSUR .	LAUNCH BAR LAMP - ON - L AND R NLG - WON	INLET ICE LANP - ON - ENGINE/PRONES ANTI-ICE SN - ONLINE AND CHILD EASIEN CHANG OR I. BRIGHT ANTO RESTART SN - CLOSED OR I. BRIGHT CHOUT SN - CLOSED) AND (MIGHT BRIGHT CHANG OR R. BRIGHT ANTO RESTART SN CLOSED OR R. BRIGHT CUTORY SN - CLOSED) OR ICE PRONE - OR	CANOPY LIGHT - ON - CANOPY SM - CHUN	CAY LOW LIGHT - ON - PILOT OR NPO ON' PMESS.	LAKORN LIGHT - ON - BOARDING LAIDUR WARRING BRITICH - DM	COCLING AIR LIGHT - ON - COCLING AIR - OVERBEAT	KOR EN LAND - ON - NATAR TEST EN-NASIATE & SCAN
2	1	No ference Drawings	INSPD FIG. 43 ZONE 7B, 60	INSPD FIG. 43 ZONE 12A, 11C 10B, 10A	MVAIR 01 - F14AA-2-2-6 FIG. 2	INSPD FIG. 46 ZORE 11A	MVAIR 01 - FIG. 2	NAVAIR 01 - F14AAA-2-2-2 F1G. 5	MANAIR 01 - FI4-AAA-2-2-2 FIG. 2	MVAIR 01 - F14-AAA-2-2-3 F1G. 2	TWEND FIG. 32 ZONE 36A, 35A	INSPD FIG. 46 20NE 168 NAVALE 01 - FIVANA-2-2-16A FIG. 5
TABLE III F-14 SOSTE, BOLLEAN EMATIONS	9	Special Considerations	ESS, NO, 2 BUS	ESS, NO, 2 BAS	ESS. NO. 2 BAS	ESS. NO. 2 BARS	ESS. NO. 2 HUS	APCS BIRS	ESS. NO. 2 BUS	ESS. NO. 2 BUS	L. MAIN BIS	E33. NO. 2 BKE
TABLE III P-14	٠	Bus/Load Management Priority	N	o.	N.	8	^Q	N	a	a	·	N
	-	Solid State Controller List Cross Reference	67	88	551	×	233	455	332	38	557	558
	6	Transducer List Cross Reference	534 537 537	538 539	ूर इंड	300	25 25 25 25 25 25 25 25 25 25 25 25 25 2	444	33	7.3	248	949 000 100
	2	Boolean Equation	Dul.:49 = XASOM •(FOE 534 + FOE535 • FOE537)	BUL550 - PAS538 + PAS539	еріда] = ЕРЅЯО •ЕРЅЯ.	CDESSOR - CDSCOR - CDSCOR - CDSCOR	HAL553 - HASOOG • (KKR131 + RKB133 + RAKR135) • (KKR136 + KKR134 + RKR136) • HARS161	DULSSA = DUSSAA	NE.555 - WESSAS + WESSA6	50L556 = DUS947	HAR.557 = HAS 548	SVL558 = SVS549 + CDSCOR = CDSLOR
	-	Table Item #	Ę.	8,5	551	š	888	*	525	356	155	356

MOURTA SHEET 1	13 Conditioning Technique	RESISTOR DIVIDER ADAPTER	HESISTOR DIVIDER ADAPTER			EXTERNAL SIGNAL ADAPTER	EXTERNAL SIGNAL ADAPTER	EXTENNAL. SIGNAL. ADAPTER	EXTERNIL SIGNAL ADALTER
MOURTA	12 Associated Boolean Equation	706	62	85 E.S.		1112	ш	п	217
	11 Reference Drewings	IMSPD FIG. 1A ZONE 42A	INSPD FIG. 1A ZONE 42C	IMSPD FIG. 1A ZONE 41A		IWSPD FIG. 1A ZONE 33A	IWSPD FIG. 1A ZONE 33A	TWSPD PTG. 1A ZONE 28C	INSPD FIG. 1A ZONE 23A
	10 Operational Addmes	14690	OFFI	03935		*ab	28000	96000	96460
	9 Conventional Switches Baing Replaced or Deleted	м/м	W/W			N/N	N/A	W/W	N/A
TRANSDUCERS	8 Associated Loads	LEPT SE- QUENCER SMITCH (25S1)	RIGHT SE- QUENCER SWITCH (2552)	LEPT SE- QUENCER SWITCH (25S1)	RIGHT SE- QUENCER SATTCH (25S2)	DECH CON- THOL PANEL (23A2) STANDBY LITE	DECH CON- TRG. PANEL (23AP) STANDBY LITH	DECH PAREL (23/2) STANDBY LITH	DECH CON- THAL PAREL (23A2)
TABLE I P-14 SCOTTL SIGNAL TRANSDUCERS	7 Present Signal Characteristics	LINGT SATTCH TOOL IN-OFBH TOOL TR = SM 284DC	LIMIT SMITCH TOOL IN - OPEN TOOL IN - SM ZEUTCH	ALE-29 - SW, 28 ALE-29 - OPEN		GND - NO GO OPEN - TO	GND = STANDBY OFEN = STANDBY	TEST - GND	SIGNAL SIGNAL ALERY/LAUNCH - CATERY/LAUNCH -
TABLE I	fransducer Type	LINGT SWITCH	LINGT SACTOR	10 POSITION ROTARY - PUSH TEST		LAMP DRIVER SIGNAL	LAMP DRIVER SIGNAL	LAND DRIVER SIGNAL	SIGNAL SIGNAL
	5 Point of Origin	PS770	PS770	NPO LEPT KNEE PAN- EL PS300		RIGHT SIDI	RIGHT SIDE FS300 W1140	NPO RIGHT KNEE PANEI FS300	F3375
	Man Source Sox Identification	LEFT LOAD SAFETY SWITCH (2583)	RIGHT LOAD SAFETY SMITCH (2554)	SYS TEST/SYS-WR PANEL (790AL)		ALQ-100 RECEIVER- THANSHITTER (23A3) (ALQ-100 RECEIVER- THANSHITTER STATUS)	ALQ-100 RECEIVER- TRANSMITTER (23A3) - STANDBY INDICATION STATUS	NPO CAUTION-ADVIS- ORY INDICATOR (69A2A1) LAMP TEST CND	(22A6)
	3 Identifier Code	TES700	TESTOI			115703	TESTON		
	2 81gnel Neme/Punction	LEFT-TOOL IN	RIGHT-TOOL IN	ALE-29-SELECT- TESTOR		ALQ-100-NO GO	STANDBY- INDICATION	LAMP TEST-GND LCS705	H SSILE-ALERT/ TESTOG LAUNCH
	right.	8	107	SE SE		703	\$	705	902

13 Conditioning Technique	EXTERNAL SIGNAL ALAPTER	SI GWI. ADAITER
Masscieted Boolean Equation	111	\$u
11 Reference Drawfings	TWSPD FIG. 1A ZONE 37B	THE PACTOR SACTOR SACTO
10 Operational Address	огвзт	• • • • • • • • • • • • • • • • • • •
9 Conventional Buitches Being Replaced or Deleted	N/A	W/A
Associated Loads	CHAPP/FLARE DISPENSE PANEL (25A2) (RIGHT DIS-	ALG-100 RECEIVE (23A3) RECEIVE (RECEIVE (RECEIVE SELECT ORD)
Present Signal Characteristics	ENABLE-SATTCHED 28VDC ENABLE-OPEN	SELECTING OF STATE OF
fransducer Type	ENABLE	SI GWI.
Selection of Origin	NPO RIGHT SIDE CONSGLE PS300	NYO RIGHT SGLE CON- FS300
Signal Source Box Identification	CHAPP/YLANE DIS- PENSE PANET (25A2)	DECH CONTROL PAREL (23A2) REPLAT HODE SELECT GND)
3 Identifier Code	TESTOT	165706
2 Signal Neme/Punction	PILOT DISPENSI COMMAND-ENABLI	SELECT MOR -
Their	707	708
	Signal Identifier Signal Source Point of Transducer Present Signal Associated Switches Main Source Round Origin Type Chareteristics Loads Replaced or Daleted Addm se Drawings Repared Parties and Presence Rouses Replaced or Daleted Addm se Repared Replaced or Daleted	Signal Gode Bartifler Box Identification Print of Transducer Present Signal Associated Bartiforal Bartif

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MOUSE 14 SHEET 1	2	Associated Boolean Equations	802	701		8 7	703	ğ		6 2	ž	707	
ř	#	Beforence Drewings	INSPD FIG. 2A ZONE 18, 34B	INSPORTE, 1A ZONE 18, 348		THEND FIG. 1A ZOME 18, 948	TONE 1C, 358	TWEFT FIG. 1A.		EOME 1C, 34C	TWEND FIG. 1A ZONE PC, 10A	1WSFD F1G. 1A 20ME 2C, 17B	
	9	Identi rier Code	118.700	107.241		TE.700	112.703	TELTON		TE.705	TE.706	102.707	
	•	Operational	11860	270%		cuto.	(ago	sæso		ocus	94010	OPPOR	
TABLE II P-14 SOLID STATE POWER CONTROLLERS AND DRIVERS	•	Conventional Devices Being Replaced	CIET (10A) ALG-100 FH. A (35A1)	CIES (10A) ALQ-100 PH. B (35A1)		CIE1 (10A) ALQ-100 PH. C (35A1)	CIRO (7.54) ECM DESTR (3641)	CRO (7.5A) ECH DESTR (36A1)	P/O K2O M.G SAPETY N (LEPT GLOVE NELAY BOX 773A1)	P/O E2O M.C. SAPETY H (LEPT GLOVE HELAY BOX 773A1)	(354)	CR11 (3A) AB/APS-25 (33A5)	
ID STATE PORE	-	P.C. Location											
NE 11 F-14 SQ	•	Load Poser Dissipation											
А	•	Duty	100%	1001		100	1006				1000	100	1
		Associated Loads	AIQ-100 RECEIVER- TRANSMITTER (23A3) (115VAC ØA)	1) ALQ-100 RECEIVER -TRANSMITTER (23A3) (115VAC ØB)	2) ALQ-100 RF SWITCH (23A4)	ALG-LOO RECEIVER - TRANSMITTER (23A3) (115VAC #C)	INITIATOR, DESTRICT IGNITER (23A1) (IDI) (28VDC SAFE ENABLE)	INITIATOR DESTRICT IGNITER (23A1) (IDI (28VDC)		INITIATOR -DESTRUCT IGNITER (23A1) (IDI)	INTERPERENCE BLANGER (27A1) (115VAC #8)	ECM CONTROL PAREL (22A7) (115VAC #B)	
		Reting V & I	V-115VAC 4A I-10A	v=115vac dB I = 10A		V-115VAC 9C I - 10A		v~28vpc		OPEN/GND	V=115VAC ØB I = 3A	V=115VAC 968 I = 3A	
	~	Type of Power Controller	AC - 1 POLE	AC- 1 POLE		AC - 1 POLE	RELAY DRIVER V = 28VDC	DC - 1 FOLE		ENABLE	AC - 1 POLE	AC - 1 POLE	
	-	Table Ites /	200	707		92 92	703	407		705	706	101	

	_										
PIOUR 1A SHEET 2	2	Associated Boolean Equations	8		82		710	ш	a.	22	ŧ
ou.	п	Beforence	INSPD FIG. 1A ZONE 3C, 39C 42A, 43A		ZONE 3C, 39C 41A, 42C, 43C		TUSPO FIG. 1A ZONE 3C, 378	THEND PIG. 1A ZUNE PSC 28C, 33A	TMSPD FTG. 1A ZONE 9C, 28A 89C	2008 3C, 178	100 110, 14 200 371, 371 394, 400
	or	Identifier Code	112.706		18. 709		TRL/110	111:71 1	TEL712	111.713	14.71
	6	Operational	10460		10001		addo	60020	otgao	07403	11000
TABLE II P-14 SOLID STATE POKER CONTECLING AND DRIVERS	•	Conventional Davices Being Replaced	CB-3(15A) ALE-29 SRQ 1 & 2 SQUIES (36Ak)	P/O K53 LANDING GEAR INTLK (RIGHT GLOVE NELAY BOX 772A1)	CB43 (15A) ALE-29 SEQ 1 & 2 SQUIRS (36Ak)	P/O K53 LANDING GRAR INTLK (RIGHT GLOVE NELAT BOX 772A1)	CBM (SA) ALE-29 CHAPP) PLANE DISP (36A)	\$	CRIS(SA) AB/ALQ-50 (AB/APB-27) (36Ak)	CB19(54) AN/ALQ-50 (AN/APR-27) (3644)	P/O KGO - MAIS DOM (NIGHT GLOVE MEIAT DOX 772A.)
ID STATE NOW		P.C. Location									
DE ST. P-16 SQ	•	Load Poser Dissipation									
-	•	Duty Cycle					1008				
		Associated Loads	LEFT SHQUENCER SWITCH (25S1) FINE ENABLE/GND TEST		RICHT SEQUENCER SMITCH (2552) FIRE ENABLE/GND 1ST		CHAFF/FLAKE DIS- PENGE PANEL (25A2) (28VDC)	DECN CONTROL PANEL (23A2) STANDBY LITE 28VDC	DECH CONTROL. PANEL. (23A2) MA/NL. SIGNAL.	ECH CONTROL PANEL (23A2) (28VDC)	CHANF/FIARE DIS- FROME 2'42) CUMMED COMMED
	•	V. L. T	V - 28VDC		v - 28vpc		V - 28VDC I - 5A	V - 28VDC		v = 28VDC	
	~	Type of Power Controller	BAABLE SLOWAL V = 28VDC		ENABLE SIGNAL V = 28VDC		DC - 1 POLE	LAND DRIVER	RELAY DRIVER V = 28VDC	DC - 1 POLE	EMBLE SIGNAL B - 28/DC
	-	Trail.	708		602		017	1 .	ST.	713	14.

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PIOURE 14 SHEET 3	2	Associated Boolean Equations	
200	п	Beforence Drewings	304, 895. 1A. 304, 895.
	97	Identifier Code	TRL/11 5
	•	Operational	тиро
TABLE II 7-14 SOLID STATE POWER CONTROLLERS AND DRIVERS		Conventional Devices Being Replaced	P/O K31 - N.G SAPETY D TTEAL)
AND STATE POL	1	P.C. Location	
DB 41-2 II 3-180	•	Load Power Dissipation	
А	•	Duty Cycle	
		Associated Loads	AIG-100 RECEIVER - TRANSMITTER (23A3) GREENT - GROOR REPEAT GROTE TEST CAPABILITY)
		Peting V & I	GRD/OPEN
	~	Type of Power Controller	SIGNL
	-	Table Ites (ξη

MOUNE 1A SHORT 1		Rquetion Description & Notes	ALQ-100 RECEIVER-THANSMITTER (115VAC 6A) 115VAC 6A RIGHT MAIN BIS-ENERGIZED	ALQ-100 RECEIVER-THANSMITTER AND ALQ-100 NF SINTCH (115VACØB) = 115VAC ØB KIGHT MAIN BIS - ENERGIZED	ALGALOO RECEIVER-TRANSMITTER (115VAC GC) - 115VAC GC RIGHT MAIN BIS - ENERGIZED	INITIATOR DESTRUCT LONITER (2PVDC SAPE ENAILE) = 28VDC ESS NO. 1 BIS - ENENZIZED	INITIATOR DESTRICT JOHITER (28VIC) - LEPT OR RIGHT MLG - WEIGHT ON WIRELS NOT	SAPE (CHD) - LEPT AND REGIT M.G - WEIGHT ON WIENELS	INTERPREDICE BLANCH (115VAC (6) - 115VAC (6) ESS. NO. 2 BIG-ENERGIZED	ECH CONTIGOL PANEL (115VAC DE LEPT MAIN BUS - ENERGIZED	LDT SEQUENCIA SMITCH - FIRE EMARE OR OND TEST - NO. MACHEUP AND LEFT - TOO. IN OR ALE-29 - SELECTED AND TEST - DEPARTMENT OF A SECOND SECOND OF THE SECOND O	KIGHT SRQUENCER SWITCH - FIRE ERRUE OF GREETS - NG MARLEUP ARD KIGHT - TOOL IN OR ALE-29 - SRLETTED ARD TEST - DEPRESSED	CHAPP/HAME DISPENSE PAND. (28VDC) = 28VDC HIGHT MAIN NES - ENENCIZED	DECH CONTROL DANZ STANDON LLTS ALGIDO - NO GO OR STANDON-INDICATION OR LAMP TEST - GND	
2	-	Brevings	IWSFD FIG. 1A ZONE 16, 34B	TASPD FIG. 1A ZONE 1B, 34B	ZONE 1C, 34B	IMSPD FIG. 1A ZONE 1C, 35B	INSPD FIG. 1A ZORE 1C, 358	ZONE 1C, 34C	ZUNE 2C, 10A	ZONE 2C, 17B	ZONE 3C, 39C 41A, 42A, 43A	ZONE 3C, 39C 41A, 42C, 43C	INSED FIG. 1A ZONE 3C, 378	INSPD FIG. 1A ZONE, 29C, 28C, 33A	
TABLE III P-14 SOSTEL BOOLEAN EQUATIONS	9	Special Considerations	R. MAIN BUS	R. MAIN BLES	R. MAIN BUS	ESS. NO. 1 BUS	ESS No. 1 BUS	ESS. NO. 1 BIES	ESS. NO. 2 BUE	L. MIN RUS	R. MIN BES	R. MAIN BAS	R. MAIN BUS	R. MAIN BAS	
TABLE 111 P-14 3	•	Bus/Load Management Priority		•	•	-	-	-	CV.	•		•	•	-	
		Solid State Controller List Cross Reference	700	701	202	703	Ď.	ÇOJ.	302	101	708	607	012	ш	
	3	Transducer List Cross Reference	N/A	N/A	N/A	N/A	300	90 SO	N/A	N/A	2582 2582 2682 2682 2682 2682 2682 2682	255 E	N/A	245	
	8	Boolean Equation	TEL.700	TELTOI	TELTOS	TEL703	TEL:704 - @BSOQ2 +@BS102	TELYON = COSONE • COSION	TEL706	TELTOT	TEL708 = (JD5052 • TES700) • (TES702 •MIS055)	TESTOS - (TESTOS - TESTOS) - (TESTOS - NUSOSS)	TELTIO	TEL711 - TES703 •TES704 + LCS705	
	-	Table Item #	200	701	302	703	707	705	206	101	200	602	710	111	

MOUNE 14 SHEET 2		Equation Description & Motes	DECH CONTROL FAREL - MA/ML SIGNAL - MISSILLE -	ECH CONTROL FANEL (28VDC) - 28VDC LEPT NAIN BUS - ENERGIZED	PILOT DISPENSE COMMO (28/DC) = PILOT DISPENSE COMMO - DARRE AND DIC ENGRECIANY DISPENSE - ON AND LEFT OR RIGHT PLAP - 2 250	ALG-100 RECEIVER-TWANNITTER - RECEIVE WEDE SELECT - REPRET WEG. SELECT AND (LEPT OR REGET W.G WISGIT OR WERELS W.T) OR (ALE-2) - SÉLECTED AND TEST DEPRESSED)	
TABLE III P-14 SOSTEL BOCLEAN BRUATIONS	1	Reference Drawings	INSFD FIG. 1A ZONE 3C, 28A 29C	IMEND FIG. 1A ZONE 3C, 17B	ZONE 37A, 37B 39C, 40C	INSPD FIG. 1A ZONE 33A, 31A 30A, 29C	
	9	Special Considerations	L. MAIN BUS	L. MAIN BAS	R. MAIN BUS	R. MAIN BUS	
TABLE III P-14 S	•	Bus/Load Management Priority	3	3			
		Solid State Controller List Cross Reference	211	713	111	ns	
	•	Transducer List Cross Reference	902	N/A	217 218 219 707	8888	8
	8	Boolean Equation	TEL712 = TES706	TEL/13	TEL/14 = TES/07 • TEC:19 • (CGE17 + CGE18)	TEL/15 = TES/08 • [(GUSOOF • GUSOOF)] + (TES/02 • MUSO55)]	
	-	Pale Item	टार	713	417	ns	

FLOURE 3A SHEET 1	13 Conditioning Technique	EXTERNAL SIGNAL ALAPTER	EXTENDAL SIGNAL ADAPTER	EXTENDAL SI ONAL ADAPTEN	EXTERNAL SIGNAL ADAPTER	EXTENNAL SIGNAL ADAPTER		
PTGURE 3A	Associated Boolean Equation	911	617	721	721	552	82 82 458	227 227 247 247 247 247
	11 Reference Drawings	INSPD FIG. 3A ZONE 3B	INSPD FIG. 3A ZONE 4B	716. 34 ZONE 4C, 98, 10C	14SPD 17G. 34 98, 10C	INSTE FIG. 34 ZONE 37C, 98	INSPD F1G. 3A ZONE 7C	INSPD PTG. 3A ZGNE PC
	10 Operational Address	oyake	0,524.3	oster .	OSIMS	94 ato	OTANO	15.450
	9 Conventional Bwitches Being Replaced or Deleted	N/A	٨/٧	4/4	¢,	Š.		
TRANSDUCERS	Associated Loads	DATA LINK CGAVERTER (13A1) (POMER GN/OFF)	DATA LINK CONVENTER (13A1) (FONER ON/OFF)	DATA LINK CONVENTER (13A1) (FORCED NEFLY)	DATA LINK CONVENTER (13A1) (FORCED MERLY)	K33-DATA LINK B (LEPT GLOVE NELAY BOX 773A1)	KSS-DATA LINK D (LEPT GLOWE HELAY BOX 773A1)	K77-DATA LINK TEST (LEPT GLOVE NELAY NOT 773AL)
TABLE I P-14 SOSTEL SIGNAL THANSDUCENS	7 Present Signal Characteristics	ON - GND OFF-OPEN	OFF-OPEN	FORCED REPLY - CND FORCED REPLY - 28V/A.7	FORCED MEPLY - GND FORCED MEPLY - 28V/A.7K	ALIGN - OFEN	D/L NAD - SMITCHED SOVICE D/L NAD-OPEN	ASACT -SATTURED 28 VID. ASACT - OFFIN
TABLE I .	6 Transducer Type	м/м	N/N	A/A	N/A	N/A	NOTANY SMITCH WITH PASH FOR TEST	10 PUSITION BOTANT SMITCH
	Point of Origin	NPO LEPT SIDE COM- SOLE PS300	PILOTS LEFT SIDE CONSOLE PER25	PILOTS LEFT SIDE CONSOLE FER25	NPO LEPT SIDE COM- SOL PS 300	P3360 W1350	PILOTS RIGHT SIDE CON- SOLE PS225	NPO LEPT KNRE PANEL F3300
	Man Source Sox Identification	NPO MAIN-DATA LINK CCMTROL FANEL (15A2) (ASW27- GN/OFF)	FILOT MAIN-DATA LINK CONTROL PANEL. (15A1) (ASNZ7-ON/OFF)	PILOT MAIN-DATA LINK CONTROL PANEL (15A1)	NPO MAIN-DATA LINK CONTROL PANEL (15A2)	CSDC (OTAL)	(734a1)	NR PANEL (790AL)
	3 Identifier Code	HF5709	N45710	NF5711	NS712	N-5713	NS714	RF871.5
	2 Signal Name/Punction	NPO ASKZ7 -CN	PILOT ASIR?? -	PILOT-FORCED REPLY	NPO-FORCED REPLY	CAINS-ALIGN	D/L RAD- SELECTED	ASKZ7 - SELECTED
	Table Ites	602	017	111	217	713	717	212

FIGURE 34 SHEET 2	13 Conditioning Technique	EXTERNAL. SIGNAL. ADAPTER	EXTERNAL SIGNAL ADAPTER	EXTERNAL. SIGNAL. ADAPTER	
FIGURE 3A	12 Associated Roolean Equation	722	722	721	
	11 Reference Drewings	INSPD FIG. 3A ZONE &C	INSPD FIG. 34 ZONE 3C	INSPD FIG. 3A ZONE 4GB	
	10 Operational Address	99050	TARO.	OTM1	
	9 Conventional Switches Being Replaced or Deleted	N/A	¢,	4,4	
THANSDUCERS	B Associated Loads	DATA LINE CONVERTER (13A1)	CONVENTER (13A1)	CEDC (07A1) (IPP EMERG)	
TABLE I P-14 SCOTTE SIGNAL THANSDUCENS	Present Signal Characteristics	CANCEL NEPLY - GNO CANCEL REPLY - 28V/A.7K	CANCEL HEPLY - GND CANCEL REPLY - 28V/4.7K	DENG GND BNENG - OPEN	
TABLE I P	fransducer Type	м/м	W/W	٧/٧	
	5 Foint of Origin	PILOTS LEFT SIDE CONSOLE PS225	NPO LEPT SIDE COM- FS300	NPO RIGHT SIDE CON- SOLE PS300	
	Signal Source Box Identification	PILOF MAIN DATA LINK CONTROL PANEL (15A1)	NPO WAIN DATA LINK CONTROL FANEL (15A2)	IFF CONTHOL FAMEL (09A1) (MASTER SWITCH)	
	3 Identifier Code	RP5/116	KF571.7	sxs718	
	2 Signal Name/Punction	PILOT-CANCEL. REPLY	NFO-CANCEL REPLY	MASTER- ENERG	
	Table Ita	716	ru.	718	

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21	Associated Boolean Equations	716	TIT.		718		412	720		124			
n	Reference Drevings	IWSPD FIG. 3A AONE 53A, 1A	IMSPD FIG. 3A ZONE 18, 2B 4C		INSPO FIG. 3A ZONE 1A, 2B 4C		INSPD FIG. 3A ZONE 2A, 3B 4B, 10A	ZONE 1A, 70 90, 100		INSPD FIG. 3A ZONE 10C, 9 7C, 4C, 3C, 1A			
01	Identifier Code	RPL716	RPL717		RPL.718		киль	NR.720		MPLT21			
6	Operational	orgor	отдов		OSDSO		01650	60000		Okbio			
99	Conventional Devices Being Replaced	CB13(3A) DDI AC (35A5)	CB17(5A) DDI DC (36A4)		CB18(3A) AAM-27 (36A)		(35A5) ASH-27	P/O K35 DATA LINK D (LEPT GLOVE RELAY BOX 773AL)	CB18(3A) ASH 27 (36A4)	P/O K34 DATA LINK C P/O K35 DATA LINK D P/O K77 DATA LINK TEST P/O K72 MLG SAPETY H (LEPT GLOVE RELAY BOX 773A1)	CB18(3A) ASK27 (36Ak)		
7	P.C. Location												
•	Loed Power Dissipation												
•	Duty Cycle	1004	1000	1000	1001	1001							
	Associated Loads	DDI (13A2) (115VAC PH. A)	e) NFO MAIN-DATA LIN LINK CONTROL PANEL (15A2) (DDI-28VDC)	b) PILOT MAIN-DATA LINK CONTROL PANEL (15A1) (DDI-28VDC)	a) NFO MAIN-DATA LINK CONTROL FANEL (15A2)(ASM-27 28VDC)	b) FILOT MAIN-DATA LINK CONTROL PANEL (15A1)(ASM-27 28VDC)	DATA LINK CONVERTER (13A1)(115VAC 4A)	DATA LINK CONVERTER (13A1) RADIATED TEST SELECT		DATA LINK CONVERTER (13A1) (FORCED REFLY)			
3	Rating V & I	V=115VAC #A I=3A	V=28VDC I=5A		V=28VDC I=3A		V-115VAC ØA	8110/28v -		GND/28V-			
o,	Type of Power Controller	AC - 1 FOLE	DC - 1 POLE		DC - 1 POLE		AC-1FOLE	ENABLE SIGNAL		SIGNAL			
-	Table Item #	716	717		817		911	720		721			
	3 4 5 6 7 8 9 10 11	2 3 4 5 6 7 8 9 10 11	Type of Reting Associated Loads Cycle Dissipation Location Esting Replaced Address Cycle Dissipation Location Location Esting Replaced Address Cycle Dissipation Location Location Esting Replaced Address Cycle Dissipation Location Lo	Type of Phote Ph	Type of Parting Parting Post Past Past	Type of Reting Reting Paser Pa	Type of Reiting Sector S	Pare Parting Pare P	Type of Park Reting 19	Type of Particle Parting Particle Pa	Second S	Process Proc	December Western Wes

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a	Associated Boolean Equations	221			ř.	ê	92
я	Beference Drewings	IMSPD FIG.3A ZONE 10C, 9 7C, 4C, 3C,	INSPORTG. 34	9, 7c, 1A	ZONE 10B, 9 7C, 1A	105 PTG. 34 200 PTG. 34 200 PTG. 34 TC 34 TC	ZONE 9, 7C,
or	Identifier Code	KM.722	RR. 723		MPLTEN	KPL725	HT.726
6	Operational	офрт			Okp13	tatao	остье
	Conventional Devices Being Replaced	P/O K34 DATA LINK C P/O K35 DATA LINK D P/O K72 DATA LINK TEST P/O K22 MJG SAFETY H (LEPT GLOVE HELAY BOX 773A1)	CB18(3A) ASNR7 (36A4)	P/O K33 DATA LINK B P/O K34 DATA LINK C P/O K37 DATA LINK T P/O K77 DATA LINK TEST P/O K22 NGC SAPETY H (LEPT GLOVE HELAY BOX 773A1)	CEIBG 3A) ASR27 (36A4) P/O K35 DATA LINK D P/O K72 DATA LINK TEST P/O K22 MLG SAFETY H (LEFT GLOVE RELAY BOX 773A1)	CBIB(3A) ASAC7 (3GA4) P/O K33 DATA LINK B P/O K75 DATA LINK TEST P/O K77 DATA LINK TEST P/O K22 MG SAFETT H (LEFT GLOVE HELAY BOX 773A1)	CHB(3A) ASAZY (36A4) P/O K33 BATA LINK B P/O K75 BATA LINK TEST P/O K77 BATA LINK TEST P/O K22 MG SAFETY H (LEPT GLOVE RELAY BOX 773A1)
1	P.C. Location						
9	Load Poser Dissipation						
•	Duty						
,	Associated Loads	DATA LINK CONVERTER (13A1) (CANCEL REPLY)	DATA LINK CONVEHTER	(13A1) (UTM SELECT)	DATA LINK CONVEKTER (13A1) (HARDINE CATHE SELECT)	SHIPBOARD USQ-2B/ SSW-1C COMPUTER DATA TERMINAL. (ALIGN DATA SELECT)	SIM-TO-SE SIM-TO
3	Peting V & I	GND/28V- 4.7K	-vb/28v-	4.7K	28v/open	28v/open	26V/OFEN
N	Type of Power Controller	ENABLE SIGNAL	ENABLE	SIGNAL	ENABLE SIGNAL	ENABLE STGNAL	SIGNAL
7	Table Item #	722	723	1	721	725	726
	1	2 3 4 5 6 7 8 9 10 11 Type of Realing Reting Reting Daty Power P.C. Disablation P.C. Disablation Conventional Devices Operational Devices Identifier Develope Instructional Devices	Type of Relian Page P.C. Conventional Devices Page Pa	Type of	Type of Reting Page Proper of Reting Proper	Processing	Part

60	Rquation Description & Motes	DOI-115VAC GA . 115VAC GA LEPT MAIN BUS . ENENGIZED	NPO AND PILOT'S MAIN DATA LINK CONTHOL PANEL - DDI 28 VDC = 28 VDC LEPT MAIN BUS - ENERGIZED	NPO AND PILOT'S MAIN DATA LINK CONTHOL FANEL -ASH-27 28 VIC = 28 VIC LEPT MAIN BUS - ENERGIZED	DATA LINK CONVERTER - 115VAC (A = NPO OR PILOT ASSEZ? FAR - ON	DATA LINK CONVERTE - RADIATED TEST SELECTED (GND) = O/L HAD-SELECTED AND TEST SELECTOR - DEPRESSED	DATA LINK CONVERTER - FOREID REFLY (OND) = (FILOT OR NOP) - FOREID REFLY ED BY OR WINDS IN SECOND REFLY ED BY OR WINDS IN SECOND AND ASSECT - SETSICIPED) OR CITES GELECTOR DEFRESSED AND ASSECT - SELECTED) OR CITES GELECTOR DEFRESSED AND DIV. NO - SELECTED) OF (LEFT OR RIGHT N.G - VEIGHT N.T OR WINDSES))	DATA LINK CONVERTER - CANCEL NEER Y (GRD) = [FILLOT OR NEY - CANCEL METRY Y (GRD) = [FILLOT OR NEY - CANCEL PRESSED AND DL. NEO SELECTED) OR (LEST SELECTED AND DL. NEO SELECTED) OR (LEST SELECTED AND TOWN WHEREAS) [THE SELECTED AND CHEST SELECTED AND CHEST SELECTED AND CHEST SELECTED AND CHEST SELECTED) AND (LEST AND NIGHT NAG. WHEREAS)]
7	Reference Drawings	IWSPD FIG. 3A ZONE 53A, 1A	IMSPD FIG. 3A ZONE 1B, 2B, 4C	ZONE 1A, 2B, 4c.	IWSFD FIG. 3A ZONE 1A, 3B, 4B 10A	IMSPD FIG. 3A ZOME 2A, 7C 9C, 10C	IMSED FIG. 3A ZONE 105, 9, 7C, 4C, 3C, 1A	INSPD FIG. 34, 7C, 9C, 1AC, 9C, 1A
9	Special Considerations	L. MAIN BUS	L. MAIN BUS	L. MAIN BUS	L. MAIN BUS	L. MAIN BUS	L. MAIN BUS	L. MAIN BASS
5	Bus/Load Management Priority	8	8	3	8		•	•
4	Solid State Controller Liat Cross Reference	911	ını	7118	9 <i>tt</i>	720	721	122
3	Tranaducer List Cross Reference	N/A	N/A	N/A	709	999	25 25 25 25 25 25 25 25 25 25 25 25 25 2	90 95 95 95 95 95 95 95 95 95 95 95 95 95
8	Boslean Equation	RPL716	HPI.71.7	RF1/718	кр.719 = крs709 + нгs710	RPL/20 = RFS/14 • MISOGE	HATZ1 = (REST11 + REST12 + MESO13 + SAST16 = (MESO25 + MEST15) + (MESO26 + MEST15) + (GESO26 + GESO26)	HH.722 * (H.802) • (H.802) • (H.802) • (H.802) • (H.801) • (GEOGE • HE714) • (GEOGE • HE714) • (H.805) • (H.805) • (H.805) • (H.807) • (GEOGE • GEOGE))
-	Table Item #	716	717	718	612	720	121	723
	3 4 5 6 7	2 3 4, 5 6 7 Solid State Das/Load Special Reference Boulean Equation Reference Reference Priority Considerations Drawings	Boolean Equation February Priority Pri	Solid State Solid State Solid State Solid State Controller Considerations Eference Entroller Ent	Soulean Equation Transducer Solida State Dua/Load Special Perference Controller Find Greence Perfority Considerations Drawings Drawings	Solid State Solid State Dus/Load Special Baference Dus/Load Special Baference List Cross Management Special Baference Special Baference Special Baference Special Baference Special Baference Special Dravings Dravings Special Dravings Special Dravings Dravings Special Dravings Special Dravings Dravings Special Dravings Special Dravings Special Dravings Dravings Special Dravings Special Dravings Draving	Transducer Solid State Bus/Load Special Bus/Load Special Speci	Solid State Dur/Load Special Dur/Load Special Dur/Load Special DrawInga DrawInga

N.						
FIGURE 3A SHEET		Equation Description & Motes.	DATA LIM CONVERTER - UTM SELECT (GRD) = CAINS - ALICH AND (TEST - NOT DEPRESSED OR ASNOT - NOT SELECTED AND (TEST SELECTOR - NOT DEPRESSED OR D.L. NAU - NOT SELECTED ON WEIGHT ON WIRELS)	DATA LINK CONVERTER - INABUNE CAINS SELECT (28/DC) = (TEST- NO PERPENSION ON ASSCT. NOT SELECTION AND (TEST SELECTION - NOT DEPRESSED ON D/L, NAD - NOT SELECTION) AND (LEST AND RIGHT MAG - VEIGHT ON WEETS)	SHI PROAID USQ-28/SSM-1C COMPUTER DATA TEMPINAL - ALIGH MAN, SELECT - KUKIS - LACIG AND (TEST - MOT DEPRESSED OR ASK97 - NOT SELECTED) AND (TEST SELECTOR - NOT DEPRESSED OR D/L NAD - NOT SELECTED) AND (LEFT AND RIGHT MGG - WELGHT ON MERZES)	SHI FROND USQ-28/SSM-1C CONTUTER DATA TENNIMAL - MATIONIT DATA SELECT - CAINE - ALION NOR (LTEST - BEPRESSEN AND ASSET - SELECTED) OR (LEST OR MOT DEPRESSEN OR DA. NAD-SELECTED) OR (LEST OR MOT DEPRESSEN OR DA. NAD-SELECTED)
21	7	Reference Drawings	INSPD PIG. 3A 20NE 37C, 10B 9, 7C, 1A	INSPD FIG. 3A 20ME 10B, 9, 7C 1A	INSPD FIG. 3A ZONE 37C, 10A 9, 7C, 1A	INSPD FIG. 3A
TABLE III P-14 SOSTEL BOLLEAN EQUATIONS	9	Special Considerations	L. MAIN BUS	L. MAIN BUS	L. MAIN BUS	L. MAIN BASS
TABLE III P-14	•	Bus/Load Management Priority		E	m	~
	4	Solid State Controller List Cross Reference	£21	457	725	726
		Transducer List Cross Reference	000 055 068 100 713 714	900 900 112 112 113	000 055 068 100 713 714	900 955 906 911 711 715
	~	Boolean Equation	(W3055 + RP8713 + (W3055 + RP8715) (W3058 + RP8714) (W3002 + GB3102)	RH.724 = (WISOSS + RE715) = (WISOSS + RF714) = (WISOSS + RF714) = (WISOSS + RF714)	HAL725 = RH8713 • (WISO55 + RH8715) • (WISO58 + PH8714) • (CIDSOC2 • CIDSIC2)	RPL76 = R8573 + ((N3055 = R6715) + (西502 + 西5125) + (西502 + 西5125)
	-	Table Item #	783	724	725	726

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PIGURE NA SHEET 1	13 Conditioning Technique	EXTERNAL. SI GIMI. ADAPTER		RESISTOR DIVIDER ADAPTER	EXTERNAL SIGNAL ADAPTER	HESISTOR DIVIDER ADAPTER	EXTENDAL SIGNAL ADAPTER		
PIGURE 14A	Associated Boolean Equation	733 727 734 728 741 729 742 730 743 731 745 732		270	736	736	E86		
	11 Reference Drawings	IWSPD FIG. 4A ZONE 17C		INSPD FIG. 4A ZONE 73B	INSPD FIG 4A ZONE 71B	INSPD FIG. 4A ZONE 65C	TWSFD FIG. 4A ZONE 70A		
	10 Operational Address	orphe		65410	отикз	01160	OTDA		
	9 Conventional Switches Baing Replaced or Deleted	HAND CONTROL (27420)		N/N	м/м	N/A	N/A		
TRANSDUCERS	Associated Loads	KI CONTHOL AND DISPLAY FOMER RELAY (INS RELAY ASSINGLY 27A38) KS2 AMO9	KS1 AMO9 POMER (RIGHT GLOVE NELAY BOX 772A1)	KZ SOLENOID FWR (FORMARD RELAY BOX 781A1)	27KI RADAR ANTENNA RE- LAY	27KJ RADAR AITENNA RELAY	e) RECULAT- ED PAR SUPPLY (27A24 A4)	b) RADAR TEST ENBLE CONTROL. PANEL. (27A37)	
TABLE 1 F-14 SOSTEL SIGNAL TRANSDUCERS	Present Signal Characteristics	SELECT = SELECT ON SELECT = SECTCHED 28V OFF = OPEN		> 1,0 GPM = SWITCHED 28VDC < 1,0 GPM = OPEN	OFF = OPEN/GND	CLOSED-SWITCHED 28 VDC OPEN - "OPEN"	EXT = 28VDC EXT = OPEN		
TABLE 1	6 Transducer Type	RELAY DRIVER SIGNAL		FLOW SWITCH	ENABLE SIGNAL	TEMPERATURE	EIN BLE SIGNL		
	Point of Origin	NPO CENTER CONSOLE FS300		STAR- BOARD FS210	STARBOARD PS390	FOREMARD FS160	ЗТАКВОАКО Р5390		
	ly Signal Source Box Identification	P/O HAND CONTROL (2720) (56) (WCS SNITCH)		RADAR TRANSMITTER (27AB) 011	REGULATED FOMER SUPPLY (27A24A4) (610) (HYDRAULICS - ON)	(27A2) (031)	REGULATED FOMER SUPPLY (27A24A4) (610) (MCS 28VDC EXT)		
	3 Identifier Code			1185721	TBS722	188723	TBST24		
	2 Signal Mame/Punction	W.SSTBY/XMT TEST19 ON SELECT		011 FLOW >	HYDRAULICS -	THEMMAL SMITCE T187723	WCS 28VDC -		
	Pable Ita	911		ZZ.	722	723	721		

SHEET 2	13 Conditioning Technique		EXTERNAL SIGNAL ADAPTER	SIGML SIGML ADAPTER
PLOUME 4A SHEET 2	12 Associated Boolean Equation		6 E	740
	11 Reference Drawings		INSPD FIG. 4A ZONE 69B	IMSPD FIG.
	10 Operational Address		S₩2L0	ملهر د
	9 Conventional Switches Being Replaced or Deleted		N/A	и/А
TRANSDUCERS	8 Associated Loads	c) KDR ENA HLED P/O NPO CAUTION ADVISORY INDICATOR	RECULATED PAR SUPHLY (27A24A4)	KSO-SBU- RECULATED FAR SIP (RIGHT GLOVE RELAY BOX T72A.1)
ZABLE I F-14 SOSTEL SIGNAL TRANSPUCERS	Present Signal Characteristics		SCAN ONLY = SMITCHED 28VDC	ENABLE = OFEN
TABLE I	6 Transducer Type		TOGGL/RELAY DRIVEN SMITCH	SIGNAL.
	5 Point of Origin		STAKBOARD FS215	57A RBOARD F3350
	h Signel Source Box Identification		RADAR TEST ENABLE CONTROL PANEL (27A37)	REGULATED FOMER SUPPLY (27/28/14) (DC REG ON EMBLE)
	3 Identifier Code		TB3726	TBS727
	2 Signal Nease/Function		RADAR TEST . ENABLE-SCAN ONLY	DE REG ON -
	Table Item	724 (Cont'd)	726	121

PICURE LA SHEET 1	ฆ	Associated Boolean Equations	TST A.					726	9				921				
	n	Reference Drewings	IWSPD FIG. 4A 20NE 1A, 2A 17B, 17C, 21A					INSPD FIG.	17C, 41B, 42B				IWSPD FIG.	694, 704			
	07	Identifier Code	TBL 727					TBL 728					TBL729				
	6	Operational Address	07009 07010 07011					60860	0100				95631	9833			
TABLE II 7-14 SOLID STATE POWER CONTROLLERS AND DRIVERS	60	Conventional Devices Being Replaced	KI - CONTROL AND DIS- PLAY POWER (PMS RELAY ASSEMBLY 27A38)	CIR21 (3A) CONTR/DISPLAY PH c (35A5)	CIE3/3A) CONTR/DISFLAY PH B (35A5)	CIECH (3A) CONTR/DISFLAY PH A (35A5)	CBL3 (5A) ANCS ENABLE (36A4)	CB36(5A) AN/ANG-9 CONDTR PH. C (35A5)	CB37(5A) AN/ANG-9 COMPTR PH. B (35A5)	CB39(5A) AN/AMG-9 COMOTR PH. A (35A5)	CB13(5A) ANCS ENABLE (36A4)	KS ANG-9 POWER (RIGHT GLOVE HELAY BOX 772A1)	CB54 (7.5A) 28VDC FWR SUP PH. A (35A5)	CB51 (7.5A) 28VDC FAR SUP PH. B (35A5)	CB48 (7.5A) 28VDC FUR SUP PH. C (35A5)	CB13 (5A) ANCS ENABLE (36A4)	
ID STATE POWE	1	P.C. Location															
18 11 F-14 80	9	Load Power Dissipation															
4	\$	Duty															
	•	Associated Loads	a) COMPUTER ADDRESS (27A18) (505) b) DDD (27A17)					STORER (27A23A4)	(405)				REGULATED POWER SUPPLY (27A24A4)	(STARBGARD PS375)			
		Reting V & I	V-115VAC 94A, B, C I - 3A					V-115VAC	*				V-115VAC #A, B, C				
	~	Type of Power Controller	AC - 3 POLE (CAN BE 3 SINGLE POLE DEVICES)					AC - 3 POLE (CAN BE 3					AC - 3 POLE (CAN BE 3	DEVICES			
	-	Table Ites #	121					728		,			622				

	_	_							-					
MOUNE LA SHEET 2	21	Associated Boolean Equations		730		•	157		38			82		
Ĕ	п	Beference Drewings		IWSPD FIG. 4A	17c, 69A,		INSFD FIG. 4A ZONE 1B, 2A 17C, 69A,	2	IWSPD FIG. 4A	17c, 69A, 78B		INSPD FIG. 4A ZONE 1B, 2A 17C, 69A,	š	
	q	Identifier Code		THL730			TBL/31		DIL732			TE.733		
	6	Operational		04601			01413		0000			adopo		
TABLE II F-14 SCLID STATE POWER CONTROLLERS AND DRIVERS	•	Conventional Devices Being Replaced	P/O K51 AWG-9 FWR (RIGHT GLOVE RELAY BOX 772A1)	CBSh (7.5A) 28VDC FWR SUP PH. A (35A5)	CB13 (5A) AMCS ENABLE (36A4)	P/O K51 AWG-9 FWR (RIGHT GLOVE HELAY BOX 772A1)	CB54 (7.5A) 28VDC FVR SUP PH. A (35A5) CB13 (5A) ANCS ENABLE (36A4)	P/O K51 AWG-9 FWR (KIGHT GLOVE HELAY BOX 772A1)	CB54 (7, SA) 28VDC FWR SUP FH. A (35A5)	CB13 (5A) ANCS ENABLE (36A)	P/O KS1 ANG-9 FUR (RIGHT GLOVE HELAY BOX 772A1)	CB51 (7.5A) 28PDC PAR SUP. PH. B (35A5) CB13 (5A) ANCS ENABLE (36A4)	P/O K51 AWG-9 FWR (RIGHT GLOVE RELAY BOX 772AL)	
ID STATE POSE	1	P.C. Location												
ME II F-16 801	9	Load Power Dissipation												
A	•	Duty Cycle												
	•	Associated Loads		(27A2) (031) (HEAT-	(00134)		BEAM FOMER SUPPLY (27A13) (014) (FWR SUP) (FORT FS150)		LPNF PROCESSOR (27A25A2) (083)			RADAR TRANSMITTER (27A8) (011) ETI AND GRID MODU- LATOR)		
		Pating V & I		V=115VAC			V=115VAC ØA		v=115vac ga			V-115VAC ØB		
	N	Power Controller		AC - 1 POLE			AC - 1 POLE		ETI DRIVER			AC - 1 POLE		
	-	in it	729 (Continued)	730			731		252			783		

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ส	Associated Boolean Equations	ĄĒL	. 25	736	737	738
п	Reference Drewings	1WSPD FIG. 4A ZOME 1B, 2A 17C, 69A 77B	IMSPD FIG. LA ZONE 2B, 71C IMSPD FIG.	ZONE 8C, 4C 38, 28, 1A INSPD FIG. 4A ZONE 65C, 218, 1C	INSPD FIG. 4A ZORE 69B	INSPO FIG. 4A 2005 705
9	Identifier Code	T81.734	TM.735	TBL736	TB.737	TM.73 8
6	Operational	04403	70.00	04405 04406 04407	06025	ostre
	Conventional Devices Being Replaced	CB48 (7.5A) 28VDC H4R SUP, PH, C (35A5) CB13 (5A) AHCS EMABLE (36A4)	P / 0 K3 ANL-9 FWR (RIGHT GLOVE RELAY BOX 772A1) CBM (SA) RADAR SUB- SYSTEM NO. 1 (36A4) P/O R2 OBC TEST RELAY (FMS. RELAY ASSEMELY	CR26 (20A) ANT SVD HID PH, A (35A5) CR27 (20A) ANT SVD HID PH, B (35A5) CR26 (20A) ANT SVD HID PH, B (35A5)	27K1 BADAR ANTENNA BELAY P/O K94 - MG SAP "P" P/O K94 - AMG 9 SAP (NGRT GLOVE RELAY BOX 772A1)	P/O K30-M.G. SAP "P" (RIGHT GLOVE, RELAY BOX 772A.)
1	P.C. Location					
9	Load Power Dissipation					
•	Duty					
-	Associated Loads	RADAR SYNCHRONIZER (27A14) (010) (REGULATOR AND FILTERS)	KADAR HECETYER (27A6) (022) 28VIX:	(27A2) (031)	HEGHLATED POWEK SUPPLY (27A24AL) (OBO) (WEGHT OFF WIN WHEEL SIGNAL)	REGULATED PANER SUPERY (27A35A) (MAJA WEEE, INTIK BYPASS 26VIC SIGNAL
	Pating V & I	V=115VAC	v=28vbc	v=115vac ØA, B, C I = 20A Each	28VDC/ OPEN	28VDC/ OPEN
8	Type of Power Controller	AC - 1 POLE	DC - 1 POLE	AC-3 POLE (CAN BE 3 SINCLE POLE DEVICES)	ENABLE DHIVER	ENABLE DRIVER
-	Table Ites #	734	735	736	737	738
	3 4 5 6 7 8 9 10 11	Type of Pating Associated Loads Controller Val I Associated Loads Controller Co	1 2 3 4 5 6 7 8 9 10 11	Type of Fourtier Pating Associated Loads Contentional Davices Davice Dav	1	1

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PIOUS AL SIGET	2	Associated Boolean Equations	T39	740									
Ē	11	No ference Dreedings	INSPD FIG. 4A ZONE	IWSPD FIG. 4A ZONE 2B, 71C, 81C									
	01	Identifier Code	TBL/39	TBL740									
	6	Operational	060e7	05434									
TABLE II F-14 SOLID STATE POWER CONTROLLERS AND DRIVERS	80	Conventional Devices Being Replaced	P/O K30 - NGG SAP "P" (NGGHT GLOVE RELAY BOX 772A1)	KSO SEMU-RGLTD IMR SUP (RIGHT GLOVE RELAY BOX 772A1)	CB30 (10A) SIDN NEG PWR SUP PH. C (35A5)	CB31 (10A) SIDM REG FWR SUP PH. B (35A5)	CB33 (10A) SEM NEG PAR SUP PH. A (35A5)						
ID STATE PONE	1	P.C. Location											
क्षा ११ मा अन	•	Load Power Dissipation											
A	~	Duty Cycle											
		Associated Loads	RECULATED FORER SUPPLY (27A24A4) (G10) (A10) (AMTENNA TEST 28VDC SIGNAL)	V = 115VAC SEMI-REGULATED ØA, B, C FOMER SUPPLY I=10A EACH (27A24A5) (601)									
	e	Rating V & I	28VDC/ OPEN	V = 115VAC ØA, B, C I-10A EACH									
	~	Type of Power Controller	ENABLE	AC - 3POLE (CAN BE 3 SINGLE POLE DEVICES)									
	-	Table Item #	739	740									

1											
FLOURE LA SHEET 1	8	Equation Description & Motes	COMPUTER ADDRESS AND DDD - 114VAC 4A, B & C - MCS - STBY/XMIT ON SELECT	POWER SUPPLY/BALK STORER - 115VAC (A., B & C = WCS - STBY/XMCT ON SELECT	RECALLATED FORER SUPPLY - 115VAC \$4, B & C = WCS- STBY/RACT ON SELECT	RADAR ANTENNA - (HEATER AND ETT) - 115VAC (AA - NCS - STRY/XOGT (M SELECT	REAM FOMER SUPPLY - (FOMER SUPPLY) - 115VAC GA -	LPRF PRICESSOR - ETI - 115VAC GA - NCS -STBV/DUIT ON SELECT	NADAR TRANSHOTTER - (ETI AND GRID MONTLATOR) 115VAC ØB = WCS - STBY/DAGT ON SELECT	NADAR SYNCHRONIZER - (NEGULATOR AND FILTERS) 115VAC OC - MCS - STBY/DALT ON SIZECT	NADAR RECEIVER - 28VDC - (FLIGHT AND CONBINED) PRESSURE - < 210° FRE AND REPRESSURE AND WARF - NOT ON LINE AND RIGHT OR LEFT WITH AC PAR - ON LINE) OR CLG - OBC/CABIN) CLG - OBC/CABIN)
2	7	Reference Drawings	IMSPD PIG. 4A ZONE 1A, 2A, 17B, 17C, 21A	IMSPD FIG. 4A ZONE 1A, 2A, 17C, 41B, 42B	IMSPD FIG. 4A ZONE 1B, 17C, 69A, 70A	INSPD FIG. 4A ZONE 1B, 2A, 17C, 69A, 65C	IMSPD FTG. 4A ZONE 1B, 2A, 17C, 69A, 76B	IMSPD FIG. 4A ZONE 1B, 2A, 17C, 69A, 78B	IWSPD FIG. 4A ZONE 1B, 2A, 17C, 69A, 73G	IMSPD 71G. 4A ZONE 1B, 2A 17C, 69A, 77B	INSED FIG. 4A 2008 29, 710 700, 2A INSED FIG. 35 2008 80, 140 39, 28, 1A
TABLE III P-14 SOSTEL BOCLEAN PRIMITIONS	•	Special Considerations	L. MAIN BUS	L, MAIN BUS	L. MAIN BUS	L. MAIN BUS	L. MAIN BUS	L. MAIN BUS	L. MAIN BUS	L. MAIN BUS	ANG-9 BUS
TABLE III F-14	•	Bus/Load Management Friority		9	·	3		m	m		E ,
		Solid State Controller List Cross Reference	727	728	729	730	731	732	733	457	735
	3	Transducer List Cross Reference	911	617	612	611	67	611	617	972	18
	8	Boolean Equation	TBL/27 = TBS/19	TBL728 - TBS719	TBL729 - TBS719	TBL/30 - TBS/19	TBL731 - TBS719	DTL732 - TBS719	TBL/33 = TBS/19	TBL734 = TBS719	TRL75 = [DHEO32 • DHEO31 • XASIBO • (XASO23 • XASO24)] • (GESO22 • GESIO22 • HRSIZ7)
	-	Pable Itel	727	. 824	729	730	ıξι.	287	733	487	735

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FIGURE 14 SHEET 2	•	Mquetion Description & Notes	NUAR ANTENNA - 115VAC (44, B, C = HTDRAULICS - ON AND THEINAL SATTCH - CLOSED	regalated furer supply - weight opp waln wheel signal - (20'dc) = wcs 20'dc-ext and lept or right mag weight not on wheels	MAIN WREEL INTLK BYPASS (2FYDC) - LEPT AND RIGHT NIG - WEIGHT ON WREELS AND MAINK TEST ENVELE. NADIATE AND STAN AND WYE PFYDG-EXT	ANTENNA TEST (2800C) - WCS 280TC EXT AND LEFT AND RIGHT M.G WIGHT ON WIELLS AND NADATE TEST ENABLE - NADIATE AND SCAN OR SCAN OR US	SBALI NRGALATED FWR SUP - 115VAC (AA, B, C - DC REA, CM - ENABLE	
3	7	Reference Dravings	IWSPD FIG. 4A ZONE 65C, 71B, 1C	IWSPD FIG. 4A ZONE 69B	INSPD FIG. 4A ZONE 69B	INSFD FIG. 4A 2ONE 69B	IMSED FIG. 4A ZONE 2B, 71C, 81C	
TABLE III P-14 SOSTE BOCLEAN BRUATIONS	9	Special Considerations	L. MAIN BUS				L. MAIN BUS	
TABLE III P-14	•	Bus/Load Management Priority	3				m	
		Solid State Controller List Cross Reference	736	737	738	739	740	
	3	Transducer List Cross Reference	722 773	305 105 127	3252	200 24.5 24.5 25.6 25.6 25.6	727	
	~	Booleen Equation	TBL736 = TBS722 • TBS723	TBL737 = TBS724 • (\overline{\pi} \overline{\pi} \o	TBL738 - CDSOC2 • CDSIC2 • SVS549 • TBS724	TBL739 = (TBS724 • CDS002 • CDS102) • (SVS549 + TBS726)	TBL740 - TBS727	
	-	Table Item #	736	737	738	739	740	

SHEET	13 Conditioning Technique	EXTERNAL SIGNAL ADAPTER	SOLID STATE	SOLID STATE
MOUTE SA SHEET A	12 Associated Boolean Equation	246	747	8 ₄
	11 Reference Drawings	INSPD FIG. SA ZONE 231C	INSPD FIG. SA ZONE 3A	NGPD FIG. 54 ZONE 34 ZONE 34
	10 Operational Address	05048	ospeé	Tako
	9 Conventional Switches Baing Replaced or Deleted	м/м	1в/гу заттен	IR/TV SMITCH
TRANSDUCERS	6 Associated Loads	KI-IR/TV REI AY P/O FORMARD REIAY BOX (781A1)	INFWARD ANTLIFIER (27A22) (120)	110 (2702) (120)
TABLE I F-14 SOSTEL SIGNAL TRANSDUCERS	7 Present Signal Characteristics	COGLING-28 VDC	ON - SMITCHED 28VDC OFF - OPEN	STEV - SAITCHED OFF - OFEN
TABLE I	6 Trensducer Type	RELAY DRIVER Signal	1P3T TOXALE SWITCH	Saturh Saturh
	Point of Origin	PORT PAD FS205	NPO CEN- TER CON- SOLE FS300	NPO COMPOSITE FS 300
	Man Source Box Identification	INFRARD AMPLIFIER (27A2) (120)	P/O HAND CONTROL (27A20) (560) IR/TV SMITCH	P/O HAND CONTROL (270ko) (560) IR/TV SMITCH
	3 Identifier Code	THS720	TH5728	This 729
	2 Signal Name/Punction	IR COOLING - INTERLOCK	IR/TV ON - SELECT	SELECT
	Table Ites	720	728	62

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PLOUME SA SHEET I	77	Associated Boolean Equations			242	25.	744
2	a-	Brewings	IWSPD FIG. 5A ZONE 1A, 5A 4A, 2610		198P0 F1G. 5A 200E 1A, 4A 5A, 41B	INSPD FIG. 34 ZONE 1A, 4A 5A, 273A	18870 FIG. 54 118, 44, 68 1480
	or	Identifier Code	VOIT41		ይ ጠብላዩ	SRL74.3	DTL/44
	6	Operational	90%0 03%0 30%0		Sobilio	90%60	92010
TABLE II 7-14 SOLID STATE POWER CONTROLLERS AND DRIVERS		Conventional Devices Being Replaced	CECh (3A) CONTR/DISPLAN PH. A CEC3 (3A) CONTR/DISPLAN PH. B	CRZ1 (3A) CONTR/DISFIAN FH, C (3SA5) P/O HG RELAY ASSENB. (2ZA38) KI CONTRIL & DISFIAN	CRC4 (3A) CONTR/DIS- FLAY PH. A (35A5) P/O KI CONTRIG. & DIS- RAY THE (PR: RELAY ASSIME. (27A36)	CRE4/3A) CONTR/DISPLAY PH, A (35A5) P/O KL CONTRUL A DISPLAY PHR (PMG RELAY ASSDMB 27A38)	CEC ⁴ (3A) CONTR/DIS- FLAY PH, A (3SAS) P/O KR CONTRKL & DIS- FLAY PH (PRS RELAY ASSEMB. (27A36)
ID STATE POWE	1	P.C. Location					
NE 11 7-14 80.	•	Load Power Dissipation					
A	•	Duty					
	•	Associated Loads	TID (27/16) (580) (115/1/16 (44, B, C)		BENBOR CONTROL PANEL (27A19) (501) (ET1)	HIBBION RECORDER (27/LLSA) (590) (CAMERA MOTOR)	DOPPLER PROCESSOR (27/23A3) (039) (ETI METER)
		Pating V & I	V=115VAC ØA, B, C		V-115VAC ØA	V=115VAC #A	9A 9A
	~	Type of Power Controller	AC - 3 POLE (CAN BE 3 SINGLE POLE DEVICES)		ETI DRIVER	AC - 1 POLE	KTI DAIVER
	-	Table Ites	741		742	74.3	744

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FLOVE SA SHEET _2_	21	Associated Boolean Equations	542	3 ⁴ ·	24.2	748	642	ğ		
Ĕ	я	Reference Drewings	IWSPD FIG. 5A ZONE 1A, 4A 68, 156C, 158C	1WSPD F1G. 5A 200E 1C, 217B, 231C	INSPD FIG. SA ZONE 1C, 3A 2178	INSPD FIG.	INSPD FIG. SA ZONE 1C, 217C	INSPD FIG. 54 ZONE 1C, 368 448, 2618 2734		
	og .	Identifier Code	DTL74.5	716.746	THE.74.7	114.748	THL 749	74.750		
	6	Operational	1990	01403 01404 01405	04001	OADOR	90010	торко		
MALE II F-14 SQLID STATE POWER CONTROLLERS AND DETVERS	•	Conventional Devices Being Replaced	CRE4 (3A) CONTR (DISHAX PI, A (3SAS) P/O K3 CONTRG. 4 DISHAY PAR PER PELAY ASSAMB	CBIS (3A) 18/TV PH. A CBI7 (3A) 18/TV PH. B CBI5 (3A) 18/TV PH. C (3/S/S) IR/TV PH. C IS/TV PEARY PV. C PV.	CB51 (5A) IN/SUBSYS (36Ak)	CB51 (54) IN/SUBSTS (36A),	CBS1 (SA) IR/SUBSTS (36AL)	CB50 (5A) CONTR/DISPL SUBSYS (36Ak)		
ID STATE ROAD	-	P.C. Location								
NE 11 P-14 801	•	Load Power Diesipation								
A	•	Duty Cycle					1001	1001		
		Associated Loads	орриек Рістек (27/25/41) (0/27 & 0/28)	(a) INFINIED ANTI- FIER (27A2) (120) (120) (101)	INFRARED AMPLIFIER (27A22) (120) (IH/TV ON SELECT)	INFRARED AMPLIPIER (27A22) (120) (IR/TV STBY SELECT)	INFRARED AMPLIFIER (27A22) (120) 28VDC	a) P/O HAND COM- TROL (27A2O) (560) b) DDD (27A 17) (541)	e) TID (27A16) (580) 4) MISSION RECONDER	(2/A2/A) (250)
		Ating V & I	V-115VAC JÁA	ν-115νας φα, Β, c	v=28vDc	v-28vDC	v-28vpc	v-28vpc I-5A		
	W	Type of Power Controller	ETI DRIVER	AC - 3 POLE (CAN BE 3 SINGLE POLE CONTROLLERS)	ENABLE DRIVER V-28VDC	ENABLE DRIVER	DC - 1 POLE	DC - 1 POLE		
	-	Table Item /	745	746	747	748	749	86		

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FLOURE SA SHEET. 3	a	Associated Boolean Equations	721
Ē	п	Reference Drewings	14970 F1G.
	q	Identifier Code	184.751
	•	Operational	OslqOB
TABLE II F-14 SQLIP STATE POWER CONTROLLERS AND DRIVERS	80	Conventional Devices Being Replaced	SUBSTS NO. 2 (36A4)
ID STATE POR	-	P.C. Location	
BER 11 7-14 80	•	Loed Power Dissipation	
A	•	Duty Cycle	
		Associated Loads	a) RADAR SYRCHRON- TZER (27A14) (300) (28VDC RADAR MB. 2) b) P/O RADAR AUN- TENERA (27A2) (28VDC RADAR NO. 2)
	•	Pating V & I	1-7.54
	e,	Type of Power Controller	DC - 1 POLE
	1	Table Item (ğ

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8	Mquetion Description & Notes	TID (115VAC \$4A, B, C) - MCS -STBY/DALT ON SELECT	SEBSOR COFFICE PARE. (TID 115VAC (A) - MCS - STBY/MOUT ON SELECT	MISSION RECORDER - (CAMERA MOTOR 119VAC) = . MCS - STEI/XMIT ON SELECT	DOPLER PROCESSOR - (ETI 115VAC) - MCS - STBY/MIT ON SELECT	DOPPLER PILTEKS (OACA & OACB) - (ETT - 115VAC) - NCS-STBY/XMIT ON SELECT	INFRANED RECEIVER AND AMPLIFIER - (115VAC 64, B, C) - IR COGLING INTERLOCK	INFRANCO ANTIFIER - (IR/TV ON SELECT 28VDC) . IR/TV ON - SELECT	INFRARED AMPLIFIER (IR/TV STBY SELECT 28VDC) . IR/TV STBY - SELECT	INFRARD ANTIFIER - 28VDC - 28VDC RIGHT MAIN BUS - ENERGIZED	HAND CONTROL, DDD, TID AND MISSION RECORDER - (28VIC) - ANG-9 DC BUS - ENERGIZED	RADAR STWCHGORIZER AND RADAR ANTENNA - (28VDC) - ANT-9 DC BUS-ENRIGIZED
7	Prevings	IMSPD FIG. 5A ZONE 1A, 5A 4A, 261C	INSPD FIG. SA ZONE 1A, 4A, SA, 41B	INSPD FIG. 5A ZONE 1A, 4A, 5A 273A	IMSPD FIG. SA ZONE 1A, 4A, 6B, 1480	IMSPD FIG. 5A ZONE 1A, 4A, 6B 156c, 158c	IMSPD FIG. 5A ZONE 1C, 217B 231C	IWSPD FIG. 5A ZONE 1C, 3A 217B	IWSPD FIG. 5A	IWSPD FIG. SA ZONE 1C, 217C	TWSFD FIG. 5A ZONE 1C, 36B 44B, 261B, 273A	INSED FIG. SA ZONE 2A, 123C
9	Special Considerations	L. MAIN BUS	L. MAIN BUS	L. MAIN BUS	L. MAIN BUS	L. MAIN BUS	L. MAIN BUS	AMC-9 BUS	AMG-9 BUS	AWG-9 BUS	AMG-9 BUS	ANG-9 BUS
s	Bus/Load Management Priority	3	e	3	•	8	e	e	9	3	e .	E.
-	Solid State Controller List Cross Reference	741	742	743	747	542	746	747	748	749	0%	127
3	Transducer List Cross Reference	611	617	617	719	719	720	728	729	м/м	N/A	и/А
CN .	Boolean Equation	01.741 - TBS719	NL742 = TBS719	6H.743 = TBS719	71.744 - TBS719	711.745 = TBS719	NL746 = THS720	PHZ747 = THS728	FHL748 = THS729	642.04	PHL750	TBL751
- -	Table Item	741 A	742 D	743 S	44. D	745 D	746	747	748 1	149	87	1.27
	3 4 5 6 7	2 3 6 4 5 6 7 Solid State Controller List Cross List Cross Reference Refere	Solid State Solid State Solid State Controller Controller Controller Controller Controller Controller Controller Considerations Drawings	Principle Prin	Transducer Transducer Transducer Transducer Transducer Transducer List Cross Priority Considerations Priority Considerations Priority Considerations Pressuce Priority Considerations Pressuce Priority Considerations Pressuce Priority Considerations Pressuce Priority This T	Transducer Solid State Das/Cool	Transducer Controller District Considerations District District	Trunducer Solid State Bus/Load Special Brevance List Cross List Cross	Trunducar Trunducar Balid State Bas/Load Special Bresumes Institute Groups Institute Groups	Transducer Solid State Display Display	Transducer Decided State Decided Decid	Trunchuest Cottollate Dayload Special Dravings Dravings

Appendix C

BENDIX CORPORATION COMMENTS TO MIL-E-23001A(AS)

All subparagraphs are acceptable except for the following:

3.3.1.1 Voltage Regulation

Not acceptable.

<u>Delete</u>: "And for unbalanced loads within the rating of the system, where the difference in per phase load currents do not exceed 1/3 of the phase current rating."

Delete: Figure 1

Add: For unbalanced loads within the rating of the system, where the difference in per unit phase load current do not exceed 1/3 of the rated phase current, the line to neutral voltage shall remain within 115.0 volts $\pm 3\%$.

Add: Revised Figure 1.

3.3.2 Output Frequency

Acceptable any class.

3.3.9 Radio Noise

Not acceptable.

Delete: ID

Add: III B

3.4.1.13 Potentiometer and Adjustable Resistor

Not acceptable.

Delete: "Shall not be used"

Add: "Shall conform to MIL-R-22097"

3.4.2.7 <u>Input Shaft Disconnect</u>
Not acceptable.

4.5.14 Performance and Endurance

Not Acceptable.

Delete: "Generator coolant 120°C"

Add: "Generator coolant 85°C"



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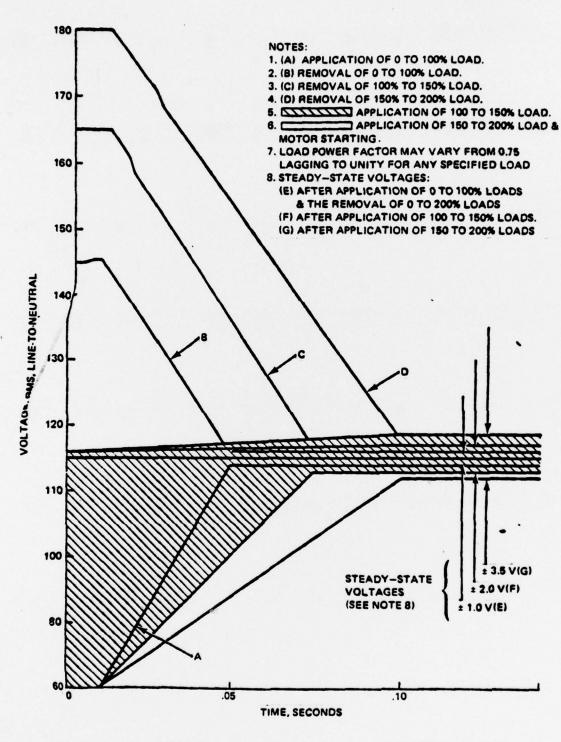


Figure C-1 Voltage Transient Limits (Revised)

